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473

<210> 4724
<211> 425
<212> DNA
<213> Glycine max

<400> 4724

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aacttcacaa aatatatata tgtatgtata ggtagcaaga taccctgcat atgcatgtat 180
atagcaaaaa tatctcacia aacatatata cgtatgttta tgtagcaaga tacctgggac 240
acacatgtat actacaaaat acctcaciaa aatatacgta tcgttaggta gaaaaatacc 300
tcactgtaca caacgagagc gagtctgac agaattctaa ccattgcctc ctaccgaact 360
ctatctaaca tacccaacta caacggtcgc ctagctacaa cctcctcct ctaatacaca 420
caccg 425

<210> 4725
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4725

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tcggcgggaa gtgatggtag aaatcgacat tccattcag ataggcccc acacttgcaa 120
tgtggtgttt caagtaatgg atataaatcc cgcctatagc tgcctcttgt gaagaccttg 180
gattcatgcc ctgggaagtg gcccttcaac gcttcaccag aaattgaagt tcgcagtggg 240
tagactctta gtgatagtgt cgggtgaaga ggatatgtta gtgagttgcc cctcctccgc 300
accgtacata gaagcggcgg aagaatcatt ggaaacggct ctccaatcct ttaaggtggc 360
gagctgcgcc tcggtggaac caagtcgctc gctactttct ctctccaacg tggccataat 420

<210> 4726
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4726

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gacaattata gttgctgttt gaatacctca ccactcaag tgtatcacac aattatggct 120
tttctctaata gaaacactct tgccttttac cactctaatt ccccttgagt tcttaggcaa 180
ttcaagagat tatggccaca acaaagaaca attcaccaat atgtgtaagg gaaggctaga 240
caaggaaaag gttaaccaag aaaaaggcta acaatgtttt taggcacaaa tgaaggaaac 300
aaaattcaga atttatgaat tcaagtaaca atccttcacg caaccaatat attaccttaa 360
agagtnnttt tttntaagtt cttcaagcat gaaccattca g 401

<210> 4727
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4727

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actagnngat catgtgtgta atcttgatac taatttgctt ctattggaag aaaaagatat 120
tgagttatac gttgtatcca aagttcatat ctgaaaaata aaaatgaagt ataaaatggt 180
aagcattttg tagtatgtgt tcttttaggtg cttagtagat tgctggccgc catactnttc 240
tgagctttca taattgacat tctatattta catcaataca ggaataaaca gatctttaaa 300
caatggtgaa atcaacaagg aaattatgct tcagctttct aatgtgccaa aagctgtacc 360
tatctgcaaa atttctgatg ttgactcttc tgaggtaggt atgactact 409

<210> 4728
<211> 473
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4728

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taatgtgcat aaaatttaca tgtaagattg acatagagtt tatagaggtc aatctgtatt 120

ttgcggcctt taagaaaaaa tttcattatg aataaaaaat ttttaagattt taattnttta 180
 gcatcatgtc aaaattaaaa atcaaattta attagataaa ataaaatatt caatacatta 240
 gttaagttaa aaaatagtaa gttaaggaaa aataaattaa tcttaaaatt taaaatatta 300
 taaaaataaa ttaagaaatt caatttcact cttacaataa ataattgatc ctgtagctag 360
 gtcaagtgtg aatttcctac ttgattnttt aaaaaaatat aaatttcaat gagatttaat 420
 ttatatatta tttctatatt caatacattt ggcattcgat ttcaacgtat aaa 473

<210> 4729
 <211> 216
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4729

ggcagtanac gctaacgaca gtaacattgc actcggtagt ccttctgagc tcccgaacat 60
 atcgagaggc tcgatattag aaccgaagct cgcaggtaat tctaacgact ttaacatttn 120
 actcggaagt ctgagcgagt cccgtagtat atcgtgacgc tcgaattttg aaaccgaagc 180
 tcgtaacata cgctaacgac agataacatt tcaactc 216

<210> 4730
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4730

agcttcttat ccaggcactc tcttgngngt ctagctcctc cttccatggc ttattcttta 60
 gtggatggcg cctcctctca cctcttctcc tttatcttcc actacacctc catggttgaa 120
 aatcaccatt gaaagacctc attgaagctc aaagatccat cctccataga agcttctcaa 180
 gcaagcttcc atcaattatt gcttaccttg atatgaccat tgtttcacag ctggaggcat 240
 tgccacgcat tgcattcttg tggagagaga aggaataana gtacaaacaa tgtttgcgtt 300
 caggtgtaat gaggaattca cacctacgta gttctttaag t 341

<210> 4731
 <211> 465
 <212> DNA

<213> Glycine max

<400> 4731

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gcagaggagc ataaaccaca aactcttgtg acaagtacaa atttctgatt caaggctcagc 120
ggtgttacca agttaaccaa ggcattctagt ttaccttcaa gcttcttagt ttcagctgat 180
gaagatgaat tcgtggctac ttcattgcact cctctaataga ctatagcatt atttatggca 240
ctaaactgtt gggagttgga agccattctt tcaattaaat ttctggcttc agcaggggtc 300
atgtctccaa gggctccacc actggcagca tctatcatac ttctctccat gttactgagt 360
ccttcataaa aatattggag aagaagctgc tcagaaatct ggtggtgagg gcaactggca 420
catagtattt aaatctctcc catattcata taagctctct cactg 465

<210> 4732

<211> 353

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4732

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gcttcttttt ccttttcctt tacaatctng tccatgaata tgcatttgtt ctaaagattc 120
tgcaacatca tctaaaatat cctttcttga agaaatagca ttagactcat caaaggaaac 180
atgaatagat tattcaatag tcatagttct tttattatat attctataag ctttactatg 240
caaggaataa ccaaggaaaa ttccttcatt tgacttagca tcaaattttc ctaagttttc 300
ttttccattg tttaatacaa agcatttgcc accaaacaca tgttgatgag aga 353

<210> 4733

<211> 482

<212> DNA

<213> Glycine max

<400> 4733

gaatactcaa gctttacgga tttggtcttc accgacgaat ggatcaaagt gttgttctga 60
atattgcaaa tctgatcatt ctgcattgat gaatactata attgcggcaa atgaaaagga 120
tgacaatgag ggatatacct ctgctatgac tgccattcct acacggccaa atttctgtc 180

agcccaacaa tgtcattact cagtcaataa cagttgctct cacccaataa tacacaaagg 240
 ccatcccaaa tcatccacaa agcctgcccc ctgcacatcc agtgccacaa caccaaccat 300
 aaaggaattt tgtagcacia agcctgtagg attcacccca cattctagtg tcatatgcc 360
 acttgctctt atatctactt gataatgcaa tggaagccat aaccctgcc acggttcctc 420
 aacctccatt cttcagagga tacgactcga acgcaacatg tgcataatcat ggaagagttc 480
 tg 482

<210> 4734
 <211> 269
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4734

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 aggatcagaa ttgccattcc ttggattata tggtttagcc aagctcatgc ttggacagaa 120
 *aggctcatta tatcaggttg aagaaacgaa gattccgtat tgcaaaatta gagcaaaaga 180
 ggaatccagt ctcactactg caaaggctac tgccaaacat atttacgatt ggtgatgtac 240
 tttgtacttc caatttgacc ttgacaaag 269

<210> 4735
 <211> 444
 <212> DNA
 <213> Glycine max
 <400> 4735

ctctgcagat tggctcttga cagtgaagga taatgttgat ctaaatatgc aaagttgatc 60
 atcctacgag gacgactgag aaaactgtgg cagatcaaga cgggtgaggat gagggagaga 120
 cctatgctgt tactgacatt cctgtacggt caagttgcct actctacca tcaactatctt 180
 tactcagcca attacaaact atgtacttac ccaccaccca ggtatccaca aaggccagac 240
 ctaaactctaa cacacagtct gtggaccgca ctttcaatga caaacaccac ctttagcaca 300
 tatcatatac accaaccgag aagtgaatct ctgagcgaga aagcctgtac aattcacccc 360
 atttcactg tcctatgctg acttgattcc atatctactt gataattcca tggtagccat 420

gaccctagcc aaggttcac aacc

444

<210> 4736
<211> 119
<212> DNA
<213> Glycine max

<400> 4736

agcgtgtacg atgcatctct atagtactca ctggtgtgtc cacattgcga gtcgtgcatt 60

gttattctcg ttctgttact tattataccc actgttgacg agctcatgcc gtttgactt 119

<210> 4737
<211> 208
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4737

tgagatgagg aagtgttgaa gggtgaaact ttctttctta ttgttgacca cagagtggta 60

cctggagata tgtcgcgng gtcaggagac cttggggacg tcagggtgtg tgctattgcc 120

caaaaccaag cttgaccaat cccgacccaa cccggtcata gtttgtcagt gagaacctgt 180

gatgtaccta agcaggcgat ctcttggc 208

<210> 4738
<211> 265
<212> DNA
<213> Glycine max

<400> 4738

atgtgtctag catcacgatt atcgtctccc ttcttgcaca tggtctgtac ttgcctccta 60

tccagaacca tattccaata ggactgatac tgccatacaa acgcaaccat taagtccttc 120

cacgtatgga ctggggaagg ttccaagtca gtgtaccagg taacagctac cccagttaga 180

ctttcttga aggaatgcat caacaatccc tcactctttg cgtatgctgc catcttccga 240

ccatacatct ttaaattggtt ctgg 265

<210> 4739
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4739

ccttgtagaa tggccagaca tgatacatgn cattgtttgt ttttttttaa gggaaaaggg 60
aagccccaca ttatgtccat gacacaaatg cataaatgat gatttggaat tcttatgcac 120
aactgggtcat gcatgcacct atgtggacac tcaagtgtca aatttttatg gtcattgtgat 180
gctagggctc acgattcatt tctctatttc ttagtcaacc caatgttccc aaaatatgtt 240
cttttaccac tgtgtgcatt cactctagac ctttttgag actcgtgaaa atttcacagc 300
attcaccctt cacgtgtata cacatctttt taaaaactac gtatgatcag agatttattt 360
aaagaaaagc tggaagtaat ctcttttcaa aagcatgtta gatttctaga tagacaactc 420
atattctttt tctc 434

<210> 4740
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4740

agcttgaacc ataaccggtg agagtgtgac cttaaactgc gagtgaatga ctagctttga 60
gtaatgggtc tttcatcaat ctctgaaatc tagaatgaaa tgtatgaatg aggacatggg 120
gaaggccata attgtatata caagccaatt gaccaaagag cttaccttga attataattg 180
tactctttgc tccctttgtg agctaaatta ctttttcaa attgaacctt gaacttgaat 240
gagtacctcc agataccttg tttagattct aggagagcat atgggtcaag gcaaacttac 300
cccaaattcg gnggagtggg gctgagtggg atttaaagaa naaggtaaag catcaacaca 360
cacataacaa ataagttgtg ttaaaaaaaaa agcaataaaa gaaaa 405

<210> 4741
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4741

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tgacagcctc cattntagga gcgctgagca ccagcagcgc ttcgaggcca tcaagggatg 120
gtcattttctc cgggagcgac gcgtccagct cagggacgac gagtataccc actttcagga 180
ggagatagtt cgccggcggtt gggcatcact gggtaccccc atggccaagt tgcaccaga 240
catagtcctc gaattttatg ctaatgcttg gcctacagag gagggcgtgc gagatatgcg 300
atcctgggtg aggggtcagt ggatcccggt cgatgcagat gctctcagcc agttcctggg 360
atacccttta gtgctggagg agggccagga atgtgagtat ggccagagga ggaaccggtc 420
cgatgggttc gatgaggagg ccatcaccca gttgctatgt atacc 465

<210> 4742
<211> 366
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4742

agcttgacag cgagaataat gagtacaaat atatgattta ttccttgga cagcagtccc 60
aactgaacaa tagtatggat atgcattctc cttgcacttt gngtattagc ttacatctga 120
tttagcttgt tgcaccctat aaagagcgca ttcattctgt caagaggcca ttgcgcccc 180
ttatgccttg gcttaatggt ccccaacttt cagggaaagg ttttaattgtt aatgctacgc 240
tgagctttca atcttctgct tcaggaaatg ggcatatcaa tgggtctact ccttaacaca 300
tcgggtcaatt gcattgggtg atacatgagc atgtacaact tcttattcag gcattcttta 360
tatcga 366

<210> 4743
<211> 494
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4743

tatatcttga caccgatata actagctgcg gaacagccat gcaatagaag aagaggaccc 60
ttttattcaa cataagcgag attccaatat tacctattga ccacaagagc ttacaacatt 120
aacctgctcg aggggtccata ttgttacacc gactatatta agtgactctt ggaacacata 180
tgagatccct aaccaattaa caaatgggcg gactttgggt tcttgataac attaaatgta 240

ataacatact ggtactacca aatacacaca aagggtgtat gtctgtactc ggacaacaga 300
 atatagttat tcttgcgaca ctagacatgg acaacattgg aatatgttga tactgagact 360
 cgtgcacaga ggcgccacca taggtctcta actctccagg tggcagcta acttgatga 420
 gttgatgaac cacttggact gcttgagttg actcatgagt atagtgttct ttcattagac 480
 tgtgtgctaa ctcn 494

<210> 4744
 <211> 316
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4744

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 gctttaattc tgcatactct ttggaaattg acttatagtt gaactaactg cactactgct 120
 ataatagctc ataattggct ttaaactagt ggaaaatata acagaacatt ggacaacatc 180
 aacacacaaa ataacatgaa cccaaaaaaa tgaattttcc cattccacct caggaatgca 240
 taacatatga caatgttggg aataaaatgt cacaaagaca cattagcaaa cctagataat 300
 tgttcgggtca attcca 316

<210> 4745
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4745

actaagctcg tgtaatcatt acactgattt ggtattcgan taccagttac tgttnttat 60
 taaagcaaaa gacgtaactc ttcaaaagggt atttgactct ttcacattgg cttaagttgt 120
 tctaaaagtt ataactctcc taaacggctt tcttgaccag acatgaagag tctataataa 180
 caatgctttg ctttgcattc caataatctt gaacacttat tcatacaatc ctttaccagc 240
 cttgaatctc tgtgaactac ttctttttct ttgacaaaa gttttcagag cttctggatt 300
 ccaaacctcg aaacttggct atcatctttt attctttctc ctttgcaaaa gaattgccag 360
 gactaccgct gaatcttttg tgctctcttc tctctttcac agaacaaaga ctaacgctga 420

<210> 4746
 <211> 373
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4746

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 gttggatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gagggaatga 120
 tgggtgttcct agacaaaacc gaattgatgg tattaaactc aacattcctc catttaaagg 180
 aaagaatgat ccggaggcct acttggagtg ggagatgaaa atagagcatg ttttctcatg 240
 caacaactat gaggaggacc aaaaggtgaa gcttgccgcc acggagtgtt ccgactatgc 300
 tcttgtgtgg tggaagtgat tatgcaagtt gaagtggacg tttccattgg gaaatacaat 360
 gataagggac ttt 373

<210> 4747
 <211> 349
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4747

cggaagctct cgagaaaatc gaatnntcat atcttttcac acggatgtcc gattcggnga 60
 cataactgat ctagacgctc gaaattgaac aacggaagct ctcgacaaat tcgaatggtc 120
 ataacttttc acacggatgt tcggttctgg gacataacac atctagacgc tcgaaatgaa 180
 ccaccaaagc tctagagaaa ttcgaatggt cataacttat tacacgaata gtcgattggg 240
 aaaataatat atcgagatgc taaaaattaa caaccgaagc tctagagaaa ttccaatggg 300
 cataactctt cacacagatg tccgattcgg ggatagaata tgttgagac 349

<210> 4748
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 4748

agcttctttt ggacctcgaa caatctatat ttgctctatc agaaccatgc tatgtgctcg 60

cgactggtct ctctcttccc ttcgcaactg gagtgtcact attgctaccc catagagctc 120
 cgcgaaatth gatacggcca tactgtctct tgagagccct tttggtctct tgagcaaggc 180
 ctgttgcgth agtggcattc tcttcccgta acccggcaca ctctttccga acgtgtgtag 240
 cggccaactt gaacttctga ttgtcacgat atgcctttcc taactcgctt ttgagagcta 300
 ggacttcttc gtgctctgtc ggggctttaa aactctctgt gctgacgact ttaacttggc 360
 gagcaatcta agcccagata tgaa 384

<210> 4749
 <211> 453
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4749

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 atggcgccgc ctcttacctt ttctcctttg ccttgcgctg catctccatg gtggaaaaac 120
 accattaaag gacctcattg aagctcaaag atccagtctc catacaagct ccacaagcaa 180
 gcttccatca agtggatca gagcacaaga gcttcaagta ggtgctcctt aaacctacat 240
 taattttttt ttctttacct tctcttccat tgctgattct tcattattct ccatgtcatc 300
 tctcactgg tctggatcta aatgctgtta acatgattct ctacagctcc caccgagtaa 360
 acttgctata gaaactaatt ngatattcta tggatcacat gtcttgctct tgctcttgaa 420
 ccatgaattg tgatgacgtt aggatccttt gag 453

<210> 4750
 <211> 440
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4750

agcttcagag ccaggcctat gactgtcaat tttattctgt cactaaaata aagaaccccc 60
 attcttcagt atcctcggcc acaacggtag taagagatcc aactacaatt taggctaaca 120
 gtagttctca ttctaaagc agtggaacac tttttcattt ataagagtcc aggatgataa 180
 cctgagatca cttaattatt aaataattaa aatataggaa tttagaaata tatacatata 240

gagataaggc gttgttggtg ttgtgtgata catatagaga tacaatagaa aatcacataa 300
aagagtatgt gattgcaaaa caaaaaaaat atcattcatt ataccacana agatacacia 360
gttaatatgc aacgataaat tattattctt ctttcttgt cactattaaa ttcaattttc 420
tctaacataa acggaaccct 440

<210> 4751
<211> 470
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4751

ntanatagca acattccaat aagagagaat gaaaacatat ttatccaaca gaagtatcct 60
ttcattatcc tccagtgcac acaagtactt ataacattaa cctgtttgtt ggtccatatt 120
gtaacaccga ctaattaatt gactcttggg acctatatca catcccggtc aaatcaacaa 180
attggcttaa tttgggttct tcataataat aataataata aaagattgga aagaaaaaag 240
aaaaagaaag gttgaagggc tcttcacgga caacagaaga gagttaatcc tgcgacacga 300
gacatggaca atagtggat aggttgatag tgtgactcgt gcaaagtggg gcaaccatag 360
ttatcaaact ctcaagttaa ctactaact tttatgagtt tatgagttca cttgttctct 420
ttgagttgac tcttgagtaa attctttttt tagtagactc tgggtaaact 470

<210> 4752
<211> 507
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4752

atttgacctg gacatcgagc accgagatcc ttagagacga actgcggcat gcaagctttg 60
aagngaagag gctataagta ttgactatta tgacgctata acagacacag aagaccgcac 120
gataaattct cctccattgg atttagccat gctacgaata taggangatg ctgtggctat 180
actaaatcgc actgcgtggt aagactcatc attctcgctt taatgggaaa gaaagaacct 240
ccagactact tggagtgcga gaagaaataa tagcatgtgc tgtcatgcaa caacctatga 300
cgaggaccaa atggtgaatc ttgccgccac ggagctctcc gacatatgct ttcgtgtggg 360

ggaagtgatt atgctacttc gaccgtacct ttccattggg aacctcatgc tcagcgactt 420
 ctgaagttct ctcaccgtcc tcacaatctc ctcccgaact aacttgtaa ctatcttctt 480
 cccctcccc atgataccct ctgcccc 507

<210> 4753
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4753

gcgagtgttt agcctagtta actttttttt tatccaattc gattaagaat gagagatccc 60
 aaagagaaaa cgttcgattg attgttcgct ntattttact aanagacgtt gatgttttat 120
 tattatatta ctactttacc tctttttgat ttccaacgtg gttacggtac gaccgaacgg 180
 gcggaattca ttgtaaccga agataatgga taatacaact caaacgatcg gtggaaattt 240
 attttatttt tagggtaagc gagatatgac ttacataaaa tggcttaagc acgtcaaaag 300
 ggggtataaa aagtaaataa aacgagaatg aaaatacacg atacacaatg tggaccacca 360
 tgggtacata gaatgaatcg ataagcttgg ttcgaggtac ttactcgttg aagatcgaag 420
 aacgatgaag aacg 434

<210> 4754
 <211> 276
 <212> DNA
 <213> Glycine max

<400> 4754

gtcattccta attgctctac aaccgcatat tctctattga gctggcgaag aagaatgcgg 60
 catttacctg tggtgaaaaa caagagcaag cctctgcttt gctcaaagat aagcgtacta 120
 aggctcctcg tctagctctc gatgcctctg gagtgggagt cgcagctgtt ttgatacacg 180
 cgggcacctt atcgcttatt atcgcgaaat acctcatagc gagacagagc gttatgccta 240
 aataatagcc cttcaaactt aagaacatta cctgt 276

<210> 4755
 <211> 155
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 4755

gatgccanga gaaacgcgcc tgattgtcaa cttctatgtg actctcacac tgtgacactt 60
cactcactat acgggtgggt caaaactctg catcggatag aaccctacgc agataggccg 120
tctcgagacc tcgacagcca actctgacac tgctc 155

<210> 4756
<211> 501
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4756

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gcaggctggc tcgaggctgt taatgttttag gctgtgctct tggaaagaaa actcgactat 120
cgtgaggata ctgggacacc gnaaacggcg tataatccac taccatatac acaaacatga 180
gcgctcatta atagaggcgg aggcgactat ttccttataa cagtcgctgg cgacagactg 240
tgaataatcc gttatcaaag caccattac aggaattgag ctctgtacct aaataatacg 300
cgtcgttgca ggtggtgttg tctctaacag tgacacacat atacttggca aaagcgacta 360
gatgcgtact caaaggcagt tagcggtagc aaaaactgca catgtgcaca tgttgggatg 420
tctaaaacca tacatacaca actctctgaa gaatctcgct atctcacata aggtgcacat 480
tcctgcactt ctaacgttcc g 501

<210> 4757
<211> 499
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4757

ttagtctcga gaacctgcan nacgcgacac atngaaactc agctggagga tatggcgacc 60
catacatggt tattattgtg ttcggccagg acggaaccaa gttgtcacat aaccatgcgc 120
gctaaaccca tcgtgcgcta ttgaccacat gcacatgaac tcacgtacat gcacgaaccc 180
catatactac tatctcgtaa cagcggggcg ccatcaattc gttcgagctt gcgacacatg 240

caagcacaac aactttcaaa acggacaagc tataatagtc gagcgcaaca tagagacgca 300
 gaanacgtct gctaacatat gaaccaaaca cggagctntt ctgatttaga gaccagagta 360
 acctattgct tcgatgcagt tcgttaaccg ttggatcgac tccataatgt tactagatgg 420
 ctagagtgca taactccaca ttgcgatcgt agggatctac tcgcaaacad cctgaaataa 480
 ttcattggcta caatttcgg 499

<210> 4758
 <211> 508
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4758

tttgacactt ggccttggac cctcgaancc agcgattctt agagngacct gcggtatgca 60
 agcttataag agattatatg gttattactt ttacgcgaa gnacgantgt ggtgcattat 120
 aaatcgagac gctctaaccg gccactgga cggactatta aaattcanat gtgtactaac 180
 ttctacgtcg gaggaccgat tcaagcccat caattaacgc gacccccaaa atctatcact 240
 ggaagctctt gagctattcc aatgggcata actttaaact ctgatgtcca tttcacggac 300
 acaataattc gagacgggtg aaattgtact accgggtgctc tcacgaacat tgaatgcact 360
 aaacttttcc caacgaggtc cagggtcaagc gcataactca tcgtgaccct cggaattgat 420
 caaccaagc ttatcagaac acctctggcg ctgactattc actcgcatct cccagccgcg 480
 ccgtcacata tgcagatctt ccacctcc 508

<210> 4759
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4759

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 aatttgcatc tgcacttggt gcaagagtct gtaatctatg ttttctgcag atcaccatac 120
 agatctatgt ccttctttgc agcaatctgg agtcaatgag caacctgaag cttatgctgc 180
 aaacattcat aatagacccc ctgacgagca aaaccaacaa aataattatg atctttcaag 240

caatagatac aatccaggtt ggaggaatca tccaaatctg agatgggcaa gccctccaca 300
acaacaacaa cagcctgtcc ctcttttcca gaatgttgcc ggnccaagca agccatatgt 360
tcctctcca atgtagcaac aacagcaaca gtcacaataa aaacaacaag c 411

<210> 4760
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4760

aatgtgacac tattatctat gtgtatgtgt agttagtctc ttatggcaat tntgttattg 60
taatagactt actgagggaa ctagttctat ttttttaatt gttgtgtgtt gaattttagg 120
tactttaagt ttgttcaagc gtttactagg ttcagaaata actgtttttt ggtatgtata 180
aatatttact tgtatttagg tcacatgaat gttttcttat taattattta gtaagtatat 240
attgtatgat ttgattaaa tgttacagca gaggtttcag agtttangaa gataactntg 300
ttctattttt ttttttaca gtgttcactt ctgaaattca actgttaatt cacacttaaa 360
atngatcaat ttgtgttaca tattgtggct gcgcttgttt gttagtgagg ttaaaaattt 420
gttcttcata agataatgat gaatattcat gttgtaaata tc 462

<210> 4761
<211> 543
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4761

atgatccett gacnntctgc gcacntgta gagacganac tcagaggcac tgcaagctct 60
atcacgagta atnggatgtt agttgctccc tactcatttt tgaanatgag atggcacgct 120
atcgctatgc gcttgagcga acagccaaga gagtatctgg cagagccgca gacatgcacg 180
atcactcaca ttcgaggacc actgtggagc tctgcagacc gataccagga gcctacctta 240
gagccatgaa gctcatagca acggtacatg aacatgtaca taatgcgcga atatccaacg 300
ctaacgaaca tagcaccatg aagactaacg caactgtgac actgccatgc cagaggaaca 360
agcatccact ctacgcagaa tgatctattc taaggctcac atcacaata aaagtgaaca 420

ggcgagaaca cctacttgga ctgccaacaa cattacccccg atgataccca gacattcaca 480
 gaacacaacg cgatcccacc gcagacgcac gcactagcac gtgacatacg cgtctgtcac 540
 cct 543

<210> 4762
 <211> 158
 <212> DNA
 <213> Glycine max

<400> 4762

acgatccaaa cgataggata cacaagaaac ggacccgatg tagtgatgcc atcctacccc 60
 ccacgggcat tggatcgaac actccaatac gaccgggcct actatgctcg ataaagccct 120
 acgcctctca tgcgccttag ggtacatgtc tgagccca 158

<210> 4763
 <211> 355
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4763

agcttgaatc tttcgggtga actogaaggg tgttcaatgt ccattgttat ataattgcag 60
 aaacaagaca accccagaag caatttaaca agacagcact attaagacag tttttttgtc 120
 acaatgatga gaaagtcaca aggaacaaac aacccttcc ttttcaacaa ccaagcacia 180
 atttgatgac tntttgcagt atattaccat cataccctcc ctaatatcg taaaccaa 240
 catccaccaa gtgacgtgtt tgatttagtt tattgagaaa tataataatg cattgcccac 300
 tgcacatgca tgaatcaatt gacgcttaag ttgtttaagg ctaacaagaa atatc 355

<210> 4764
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4764

tgcttctata gtatttccgc ctgccacctg acgcatgggt cttatttaac agatgttng 60
 ntngnatgga taaccacttg nggtatttnc gctgccacc tgacgcatgg gtcgggaata 120

gtaaatattg tctttgtaca gataatcaat tgggtatatt cgcttgtcac ctgatgcata 180
 ggtcatgadc agcaaagtgt gtgagaccaa aagagtctca gccggaagat gctgacatct 240
 tcagaaaggg tgcagacaac cacattgggc tctgcgtgac aacgggctcg cttgcctctt 300
 gatgacgaaa ggtgcggaata accataaagt atgtctgcat gctaccgaac ccttgagtca 360
 cgatatcaaa ggtgagactt tctgcgggac tcggtcggaa gacactgaca tctct 415

<210> 4765
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4765

agtcacctgc ggcattgcaag cttataagaa cgaaattgcc taaatcattt tcaaatatgc 60
 atgtgaatta ggaagcatca acaagaatca agccaaggct attgtgcaag caatggggca 120
 aaacacacca aaagattatg atgatggatt gctcgaattc tcacaaaggc aaacttatca 180
 ctttcaaatt gagatttcaa aactatcatg acatgtaaag gaaaaacaag gatttcaagt 240
 cacaaaatgt caagagactt ttattttcag aacaattacc cattacttga acatatacta 300
 taattcanag acaaactatg aaatttaaca caacaaaact aacaaaatta aactagaacc 360
 caacaaaact aacaaaatta aactaattta acacaactaa caaaacaaa accaaagaac 420
 acactnccc ccatactta aacaatacat tgtcttc 457

<210> 4766
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4766

gagatgggat ctggtcttag aaaataattt gctaagagcc aattcgggtgc gattggccaa 60
 cctgaggaat ggtgtagtct tgctgctgac tacttgcatc gtggccccct gcagctccca 120
 ttcatatacc tagggatgcc tatagggtgt aaccctagaa ggaagggtgt gtgggagcct 180
 ataatacaga aatttgaagc caaattgaac aaatggaacc acagaagcat ctctatggct 240
 ggcagaatta ccttaatcaa tgctgtcttg acagctntgc ccttggtnta tatgtctttn 300

ttcagggccc cttcagcagt catcaagagg ctactacta tccaaagaca atttcttgn 360
 ggtggaaact tggaaggaaa aaagatagct tggatctcat ggcagcaagt gtgtgctcct 420
 agagaaa 427

<210> 4767
 <211> 231
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4767

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 tgaccacaca gtggtacctg gagatatgtc gnggggggtca agagaccttg gggacgtcaa 120
 gtgggggtgct attggccaaa accaagcttg accaatcccg accaaccgg gcataatcgg 180
 tcacggagaa cctgtgatgt acctaaccag gcgagcttct ggcagtcaac a 231

<210> 4768
 <211> 450
 <212> DNA
 <213> Glycine max
 <400> 4768

cgattgtcac gtgctcatgc attatttgtt atccgtggct atacgagaca tcttgccaaa 60
 caaagacagg ttagcaataa ctgcctgtg ctttatcttc catgctatat gtagcataga 120
 cattgatcca gtcattgttg atgaaatgga aaatgaggcc gcaattatac tgtgccagtt 180
 ggagatgtat tttcccctg ctttcttaga catcatgatt cacttgattg cgcactctggt 240
 cagagaaatc aaatgctgtg gtccctgttta tctacgggtg atgtaccgg ttgagcgata 300
 catgaagatc ttaaaaagg atacacagaa tctatatcgt tcacaagcat ttatcgttga 360
 gaggcacatt gcagaagaag ccattgaatt ctgtctgact acttacagaa tgctaaacct 420
 gttggacttc ttgagtctct gcatgatgac 450

<210> 4769
 <211> 317
 <212> DNA
 <213> Glycine max
 <400> 4769

gactaggcgg cggtcggacg atggcgcaca acatggttgc cacatccaca atgcgcgcat 60
 aaactgacca tcccctgtcg cccacctgca actgagctca cgtactccca cgtagcccat 120
 atcctcgatt ctatcaacac cgggtcccaa tcaatactcc caagcttcca cagcatccaa 180
 gcaaaacaac attcttacag cacaagctat cgcacccaag caagactgag cataggaaga 240
 aaactgtgct caacacatca accaaaatca caggtcttct cacttaatga ccacaggaac 300
 cattccttcg atccaat 317

<210> 4770
 <211> 471
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4770

ntgcggatnt ggtcttcgcc agtgaaagga tcgatgtgtg gttctataat aggcaaattt 60
 gatcatccta ctacgacgac tgagaacaat ggggctaata aagaggggtga ggatgagggga 120
 gaaacccatg ctgtgactgc cattcctgta ccgccaagtt tcccaccaac ccaacaatgt 180
 cattactcaa cctttctcct taccacccgc ccagttatcc acaaagggtca tccctaaatc 240
 gacaacaaaa cccacctacc acacaaccaa tgctaaacac cacctttggc acaaacaaaa 300
 acaccaacca agaaatgata tttgcagcga aaagcctgta ggattcaccc caaattccgg 360
 tgtcatatgc taacttgctc ccatatctac ttgataacgc aatggtagcc ataaccnctg 420
 ctaggttccc tcacaccccc atttttctga tgatatgact cgaacgcaac a 471

<210> 4771
 <211> 461
 <212> DNA
 <213> Glycine max
 <400> 4771

ccaagcttag cggacagggc cgactaacgg agttcatcca aaaaaccaga aaatcaacat 60
 aaattgatga actcgcttag cgcacaggcg cgcttagcga gcacatcgaa atttccagaa 120
 aacttggggc ttttcagccc cctaccatag gcctctgtta ggctcaaaa cctaataaaa 180
 acaacacaaa agcatgtaca ttatgtgcga aaataaaccc ctaacaacat agcatctaaa 240

gactaaccta actgtaacat tgcaaagcac aaaatcaaag ctttaaacta gctacagtag 300
tcttctatcc taaggttcaa agcaaaaata aaagtgaaga gttgagaaca cttacttgga 360
ttgcagagaa gattaagcac gaggaagcac agagaagcag agaatacaat ggaagcacia 420
tgcagatgag tgcaagagta agtgagaaat gtgtatgtaa t 461

<210> 4772
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4772

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aagggtagca tttcttggtg aaactaactt tccaaatgtt tgcattcgca ggaaacggcc 120
ccgaggaagt gatgcaatcc tcccccccaa gggcattgga tagaactc caataagatt 180
gggccaaaaa tgcaagagaa ggccctaggg ttctcatgag ccttagggta gatttctgag 240
cccatgggcc aaggttgggt ccaattatct ttgtacatat tagactagga tgtcattata 300
tttggtcctt gtatttaggg atccatattg taggtagggt accctagaaa tataggattn 360
ttcagccctt gtatttttgg gcacctagac tagttnttgt attaggggta gttntgtaat 420
ttcacatgca ctaagtggat atttgat 447

<210> 4773
<211> 518
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4773

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aagctctaaa cagactttca aaattaacat tttgtgagac taaggaagca taatctggta 120
cttgaaccga gcggtcgctc aaacgatgat gcctcattaa ctatatttac atgtataggg 180
actgttttac aacgcacttt ggaaagatta ttgcgctcgg gtatgcaagg ctcaaatacg 240
atTTTTgtaa ctggaagaga gatattctta cgtccataaa gtgcagctac ctgtcatcac 300
cattcattaa cccaattgct ggccaatgtc tatcttaaca tattcttcta gcacattatt 360

cataacaggt ctgaacattg taaactcatg accgccacta ctaacaatag agctctattg 420
 tcattcattn gcacaactct taactaacca tgcgatccga cgcgtactat cacctctttt 480
 gtactaatgg cggctcatgt taaagatcta cagcgacg 518

<210> 4774
 <211> 346
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4774

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 cgaatgcttg cagtgcaaac accgctgata tcaacgctcc gcgctcttg ttgctggcat 120
 atttatacat gattgtggct gaaagagggg agtctccacc gatggcaaac gctagacaga 180
 atctgaagaa gcatagagag gccatgacac cctgtggagc tgaccacag gagagttgct 240
 gggcaaggga ccacactacc atgagaatga gcgttagtgc ccatactcta tatctcccca 300
 tttaggcacc aagccaacca aataataatg gtccgtatta tgcgcc 346

<210> 4775
 <211> 174
 <212> DNA
 <213> Glycine max

<400> 4775

agcttcaccg gatgatgccg atctatcatt ttctattcga catcatacaa ctgatattca 60
 gggaatgaat agaataatca ctgcgcggtg tcggtcgta tatggaccag aatgatattc 120
 gtcagccgac attgcgcaat ttgttttaca aacgctagcg ataatggatt tttt 174

<210> 4776
 <211> 251
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4776

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 ngcgctccaa gagtaacgtg ccaactgtgaa aactaactct tccaatgttt gcctccgcag 120

gaacggttcc tatgaatctg gactcctata ggtgcaggac cgacaaggcg ggcgaaggaa 180
 ctacctctcg cccggagtag tacagtcacc gctttaagag cgttgtagac cagcagcgct 240
 ttgaagccat c 251

<210> 4777
 <211> 155
 <212> DNA
 <213> Glycine max

<400> 4777

gtatcaaagc ttatcttata cagatttttag tccatccgga gtttatttta tcgagaattt 60
 atgtgcggct agattttatt ggggccggaa tttattttat gccatcctat cctattgtgc 120
 ccagatttta ttttatttcg attatggggc tggac 155

<210> 4778
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4778

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 tgaacggctc gaatgctatc aaaggcttca tcagataaga attccatata aataaactta 120
 cggtcgatta tggaacgagc tgagaaaaga tttgcgtacc gattctacta ttcttctgaa 180
 gaaaacaatg gggaagatga caatgagggt ggaattggtg ctgtggatgc gctagcggct 240
 ccggaacgat gagctcttga agccgaagcg gacgcggaag aaccctttcg tttctttgac 300
 gattctgcca ttcgaaggag accctgcaga gtccaatcgg cgagatcaat ataaaaatga 360
 actagatgaa gatggcaatt tacgggagtt gattcgatga agaaatgagt gagat 415

<210> 4779
 <211> 230
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4779

atgcaagctt cacacaagtt ggttggtggt ggtatttggt tgattacatg ataacctctc 60

The diagram illustrates the experimental design. It shows a sequence of events for a single trial and then for multiple trials. The sequence is: Stimulus (a word or image) → Response (a word or image) → Feedback (a word or image) → Reward/Punishment (a word or image). This sequence is repeated for multiple trials, with the subject's response and the feedback/reward/punishment phase being contingent on the stimulus.

tatcgnnttag	cctaattcag	atcaaattgt	tatgggctta	tctcatnctt	ggccagctta	60
gtggaccaaa	tcagcctgag	atgcaagggg	taagcgctaa	gcgccagaga	ctctcggctt	120
agcgcatgac	caaagatgcg	cttagcaaaa	ggactgtgtt	tcagaagaag	aaaaattcta	180
agttatTTTT	cagtcccttt	cttaagaaat	tgaaactctt	atatctatca	tttaaaaaca	240
agctgatata	ccccaatgta	atgattatga	agcaagttcc	acatgatata	ctgcataaaa	300
tgcagagata	acagaaatta	aaactggggt	gcctcccagg	aagtgccttct	ttaacgtcat	360
tagtttgaca	cgtttacatc	catgggtgat	caaatgcaca	gagctatgtg	ctcttgtgaa	420
ttcttcacca	tggtacagtt	tcaacctct				449

caagcttgta ccaaaaacaa aaaattntnc taatttaa	tacatgacaa tgagatcgct	60
atataagata ctacaaagat cacattttac aaaagattca	tatttaaata cccatttttg	120
gcgttttttt tttcaagggt gtggcattgc cgagagacaa	tggagggtga ccattttctca	180
tgtttggacg tcaaagaacc cataaacatt attcccggtc	tccggttctg tcaaataaca	240
gctaaaaaca aagccagaaa atccaaaaaa aataggaaag	tgaccttttt tcatgttcaa	300
gtacccatgt ttgggaattt tctccgtagg tgtggcagtg	ccgtgagaca atggagggcg	360
gccattttctc at		372

<210> 4782
 <211> 173
 <212> DNA
 <213> Glycine max

<400> 4782

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 ttcgaacagt tacatcttta ggtctattca taaacaagca ctggtactcg attaccaaatt 120
 tacagtgact gattacacac tgctttgaaa cgaaaggatg tgactcttca cct 173

<210> 4783
 <211> 453
 <212> DNA
 <213> Glycine max

<400> 4783

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 agcgagtagc tgacttgtct ggctatcatt tcaaagaagg gtttgacacc atactaatct 120
 tcttacttta cagactttga tggattatct tttacttgtc tgattatttg acattaaatc 180
 taaagggaaa ataatatgct tgttgacctt gacaatatac gcataccagg acatggataa 240
 atgcaaagct tttagtttac cttgttaaaa cttgttttgt ttgaaacaga caaggatatg 300
 aataccagtt tattgagaag attgttgagg aggtctctag ggagattaat ctttgtcctt 360
 tacatgttgc ggattaccca gttggactaa agtcacgagt gttacatgta aggagagctt 420
 tcgatgctgg atctgatcat ggcgccacat gat 453

<210> 4784
 <211> 470
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4784

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 gncaccgggc tgcagcgtat tctccattcc acaatctgca acagatacaa acacaaaatc 120
 acatttcact cttaaaaccc taaaccctaa acacacactg ttaacattgg caaataaggt 180
 aaacgataaa cgcaattagg tcaaaaagag ctgcgattag ataagaaacc tccgcatatg 240

tagctgactg gctcaagctg aggatccatc gctgggtcca gcgaggtgta aaggaagaaa 300
 gttctaagct ntaaccttta gctntctgct caacgaagaa aatgtaaagt ggctcagaat 360
 cagaggctct aaaacgaagg attgtgcttc atcttcagct cttatggggc caaattcgca 420
 acttacatgt ccaaaaccga gaagcctctc tattctgtat ttctttttac 470

<210> 4785
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4785

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 agttattaga tagatatatt cggccgtttg tgtagatggg aaggatgaga ttctgaataa 120
 agcttccttc tgggcttaca aaggaaggga ttcattgatta ttgatcatca tcatcaatat 180
 tattatttct ttttgaagac aaatctagaa gccaaatttt tcttccagtg gaccctaccc 240
 tctttcttct ccaaaatggt gctcacatag gaggaatttg gttggagggc tatacagatgt 300
 ggggacaaat cacttgcaact ttggtgatca atgatcagt atcacaaacg caaaaacaaa 360
 ttacaaccgc ttatatgggt tataaaatca tgcattgcat tcttcttttt acagtctatc 420
 atgtgtgctc ttcattcata cactaactga gtacatacta ctc 463

<210> 4786
 <211> 449
 <212> DNA
 <213> Glycine max

<400> 4786

gtaaatgctg tgaaacttat tcatatccgt tttcttggaa attgtgtcat tgaacttctt 60
 ggcgtggatc ttccaactgc atatcaacat gccttcactt acatccggca actggctaca 120
 attttaaggg aggcacttaa tacaagact aagggtgctgt ttatttgtcc agtacatgtt 180
 attttcttat taggcactgt aagaagtgcc ttgaacttat agttatccta acaaactggt 240
 tatatatgga tattaattac tggcccttag ttcttacaag tttggcatgt ttttctatat 300
 ttgtctgtta aactggttct ttaaccttgc atgtaaaacc ttcaaagtgc tggtatttgt 360

ctgttacagt tactaggcac tcttgattat tgttgaaaaa ttagaggcac tcataaacct 420
 ttcatgttgt tgttgatagg gattgagaa 449

<210> 4787
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4787

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 ttaactgagc tcacatactt tcacggaccn cttaatctcg gtcctctcaa tgccgggtcc 180
 ccatcaattc ttccaagctt tcaaaacatn caagtaattc aacatccaaa catcatgaac 240
 tatcaaagcc aagaaaacaa ggcagaggca aaaaactctg cccaaaacac aaaccaatat 300
 cacagctttt cacactcaaa taccacagta tcattctctt cgttccaatt cgtaaacgt 360
 tggatcgact caaaactttt actggaagtc tctagtacat aagtctacat ttgaccgtt 420
 gggatctgcg attaaatgtn cagaacccaa tatgtactac cc 462

<210> 4788
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4788

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 aaatcacttg atccatgaca tgcactctaa aatactttgt cttatgttta aggtgtttca 120
 tggaaataca ttaaactgta cttcatcatc ttgtaccttg acagtgagtg ttccatcatc 180
 cacatcaatc acaactttag aaatcttgat gaaagatcta ctaagaatca attgaacttc 240
 attgccttca tccatatcca tcaactgcaa gttgactgga aagacagatt tgtcaacttt 300
 tatcaataca tctacaacaa tgccataagg aagctgtggt gttctgtcag ctaactgcaa 360
 acccatcctt gntgggtctga tttcaacttc tcctatctgc ttgatcatg 409

<210> 4789

<211> 384
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4789

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 ggtgaggggc gattctttga ggatcctaac gaggggttga taatcgattn tgaccgagaa 180
 gtaagtcaaa caataaacga agaagaggaa gaggacgtcc tttcaccaaa gttggagagg 240
 ttgatcgctc aggaagaaca cgaaatgaag cctcaccaag aggaaaccga actgataaac 300
 ttagagaccg gagagggaaa gaaagaagtg aaagtaggaa ccagtatgat cgcacctatc 360
 cgccaagggtt tgataaccct tctt 384

<210> 4790
 <211> 357
 <212> DNA
 <213> Glycine max

 <400> 4790

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 tttatagact cttcgtgtct ggtcaagaag atcatttaga agagttatta cttttagaaa 120
 aacttataac caattcgaaa aagtccaaaa ccttttgaag agttacatct tttgatttat 180
 tcagaaacag ccaactggtag tcgattacca aattagtgtg attgattaca caaagctttt 240
 aagtgaaagg atgcgactct tcacctttga atttgaattg caacattcaa gggcactgat 300
 aatcgattac caaaacattg taatcgatta cagctttttg aaaataattg gaacttt 357

<210> 4791
 <211> 240
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4791

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 ggcaagaatg gataaggcga agtgtgattt tcgaaatctg cacttatgca gaattttgct 120

gtcaaaatag gtgcagcagg attttggctc tgtgcagaaa aatgcttgtg tggttggctg 180
 tggaaagagc agtacagaat gagttctgga tgtctgctag taaatcccaa cggtcacaa 240

<210> 4792
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4792

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 gtattctttg aaagatcggg gccccctttt ttgcacatat tntgtagttg catcctatcc 180
 gaagccatta taccgacact gcctaacgaa ggcaaccatt aggtcctccc aggaatggac 240
 tcgggaaggt tccaagttag tgtaccaggt aacaactacc ccagtaagac tttcttggaa 300
 ggaatgtatc aacaattcct catcttttgc gtatgcccc atcttctgac aatacatctt 360
 tagatggttc ttggggcaag taatccccct gtacttgtca aagtccagca ccttgaactt 420
 gggaggggtg atgatatt 438

<210> 4793
 <211> 263
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4793

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 cttgctaagg gtagagagag gaagactaga gatttggatc aagtaaagag tgttaaggat 120
 gaagaaggca aagtcttagt gcaggaaaga gatatcaagg aaaggtggaa ggcgtatttc 180
 cacaacttat ttaatgatgg atatggatat gactctagcc agctacaccc accagaatag 240
 gaccggaact ataagcacta tcg 263

<210> 4794
 <211> 423
 <212> DNA
 <213> Glycine max

Protein	Accession	Length	Mass	pI	Abundance
Actin	P00671	375	42.7	4.2	100
Albumin	P02768	585	66.3	4.6	10
Alcohol dehydrogenase	P00331	400	72.0	4.8	5
Aspartate aminotransferase	P00332	390	72.0	4.8	5
Cytochrome c	P00333	340	34.0	11.5	5
Glyceraldehyde-3-phosphate dehydrogenase	P00334	440	76.0	5.0	5
Hexokinase	P00335	480	84.0	5.2	5
Lactate dehydrogenase	P00336	330	36.0	5.5	5
Malate dehydrogenase	P00337	340	38.0	5.8	5
Myoglobin	P00338	150	15.0	6.0	5
Pyruvate kinase	P00339	480	84.0	5.2	5
Shikimate dehydrogenase	P00340	400	72.0	4.8	5
Succinate dehydrogenase	P00341	340	38.0	5.8	5
Tyrosine aminotransferase	P00342	340	38.0	5.8	5
Ubiquinol	P00343	100	10.0	6.5	5
Ubiquinone	P00344	100	10.0	6.5	5
Ubiquinol-10	P00345	100	10.0	6.5	5
Ubiquinol-11	P00346	100	10.0	6.5	5
Ubiquinol-12	P00347	100	10.0	6.5	5
Ubiquinol-13	P00348	100	10.0	6.5	5
Ubiquinol-14	P00349	100	10.0	6.5	5
Ubiquinol-15	P00350	100	10.0	6.5	5
Ubiquinol-16	P00351	100	10.0	6.5	5
Ubiquinol-17	P00352	100	10.0	6.5	5
Ubiquinol-18	P00353	100	10.0	6.5	5
Ubiquinol-19	P00354	100	10.0	6.5	5
Ubiquinol-20	P00355	100	10.0	6.5	5
Ubiquinol-21	P00356	100	10.0	6.5	5
Ubiquinol-22	P00357	100	10.0	6.5	5
Ubiquinol-23	P00358	100	10.0	6.5	5
Ubiquinol-24	P00359	100	10.0	6.5	5
Ubiquinol-25	P00360	100	10.0	6.5	5
Ubiquinol-26	P00361	100	10.0	6.5	5
Ubiquinol-27	P00362	100	10.0	6.5	5
Ubiquinol-28	P00363	100	10.0	6.5	5
Ubiquinol-29	P00364	100	10.0	6.5	5
Ubiquinol-30	P00365	100	10.0	6.5	5
Ubiquinol-31	P00366	100	10.0	6.5	5
Ubiquinol-32	P00367	100	10.0	6.5	5
Ubiquinol-33	P00368	100	10.0	6.5	5
Ubiquinol-34	P00369	100	10.0	6.5	5
Ubiquinol-35	P00370	100	10.0	6.5	5
Ubiquinol-36	P00371	100	10.0	6.5	5
Ubiquinol-37	P00372	100	10.0	6.5	5
Ubiquinol-38	P00373	100	10.0	6.5	5
Ubiquinol-39	P00374	100	10.0	6.5	5
Ubiquinol-40	P00375	100	10.0	6.5	5
Ubiquinol-41	P00376	100	10.0	6.5	5
Ubiquinol-42	P00377	100	10.0	6.5	5
Ubiquinol-43	P00378	100	10.0	6.5	5
Ubiquinol-44	P00379	100	10.0	6.5	5
Ubiquinol-45	P00380	100	10.0	6.5	5
Ubiquinol-46	P00381	100	10.0	6.5	5
Ubiquinol-47	P00382	100	10.0	6.5	5
Ubiquinol-48	P00383	100	10.0	6.5	5
Ubiquinol-49	P00384	100	10.0	6.5	5
Ubiquinol-50	P00385	100	10.0	6.5	5
Ubiquinol-51	P00386	100	10.0	6.5	5
Ubiquinol-52	P00387	100	10.0	6.5	5
Ubiquinol-53	P00388	100	10.0	6.5	5
Ubiquinol-54	P00389	100	10.0	6.5	5
Ubiquinol-55	P00390	100	10.0	6.5	5
Ubiqu					

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<223>      unsure at all n locations
<400>      4797
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<210>	4798
<211>	451
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      4798
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2031

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 cagacaaaaa aaaaaaagaa ttatctacaa gagcaacaat agtacaagta gtggaagtag 420
 agaacgtgcc tatagcaaaa aacactatac c 451

<210> 4799
 <211> 293
 <212> DNA
 <213> Glycine max

<400> 4799

gcttagagaa aactttcttg agaagcaaga tcttattaac tctcacccat ctaagaacta 60
 agctcacctg catgagaagg tcacttgaga agctagagct tagctacaca cagcgatcta 120
 aaagctagac tgacctcctc gataaatgac atgataatac agaagaagtc cctactacaa 180
 agactactca aaacggcctg aaaacagggc taaaacgcta tactaataga atgaccatag 240
 tacgaggccc gaaagaggga caaacctatt ctaatattha caaagaagag tgg 293

<210> 4800
 <211> 248
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4800

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 agcttgtaaa aaatcttctg gacttggagt gatcacatgc aggctcttg aacccttgcc 120
 acccaatctg tcatcatgcc gagactcaag aagaccaaca ggtttagcct tctaataat 180
 tctgaacaaa attcaacggc ttcttatgca atgcactctt caacaataga tgcttctaga 240
 cgatatag 248

<210> 4801
 <211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4801

ngagttntga ttggcagaag aagaacagat gattatccag ttattggata agncatagga 60

aaatattgct gattatcagc ataactgaca ttgctctatg cacatntgat catcatgctg 120
 gagctttctc atctattggc tttgtcatct aacctattat taatatttat tttgcggaga 180
 ttatccactt atatatcttc taactttctaa atagtcatga gggattctac atatttgtaa 240
 acgtatgttg ccatgaacgt tttcacaacg tcaaacaaat ctctcttgct ctgaggtaat 300
 aganatcgcc attctttctc cctcaactc taagctttca ctttcttctt ac 352

<210> 4802
 <211> 470
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4802

catgcaagct tcctcgggtgc catttctctgc gaaggcatat antttttaaa gttagttcta 60
 ccagtngnac actactctta aaacaaaaat ggcatacaac ctcccccat aaatacaaac 120
 atcaatgtaa aattagagca agcttatgcg catatttctt tacgaacgtt cacttgacac 180
 agacattcta ttaactaaga aaaaatgcac ccatatacaa tcaaggcagc ttcggttatct 240
 agattattta catgtacttc caaggtgtat tngttactta catcacacac atctccttgg 300
 ctaaatttac atacatgcat actcaaagca ttttggggta ccaaaaattg cacatgtgca 360
 catcttggtta tttctaatac ctatacaaac ttcatgttga atcttgacta tctacacaat 420
 aaggtgctac atttcatgct ctttttaaag ttttgctacc taaagtgcga 470

<210> 4803
 <211> 502
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4803

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 tagtcgaata ctgttattgt gtctactatc attgncgtcg gtgtgtcatc attgaggtgc 120
 cacgtttgag ctgccaggta tctcacacct attgggggtg attctctcga aagatactgt 180
 gcgccccccg tattgcccac gttatgcagc tgcacccat acgaagacat catactgaca 240
 ctgcctaacg aatgccacca ctatgtcctt ccattaatgt actctggaag agtccagcta 300

gcgtaccatg caacgagatc ccaggaagac attctcggaa tgaatggatc aagtatcccg 360
 tatattgtgc gcatgctccc atcttccgat aatacatcat tagatggttc ttgggcaagt 420
 agtccctcg acgtacgcaa gacgctaccg gaacttcgtc gtggatgata tcggctctag 480
 aacaactctt tgggttgaaa cg 502

<210> 4804
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 4804

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 ataaccgtat catgattatt tattttgtta gagatggat acattacttg tcagtataca 120
 attaactagt attgcattgg aagattaaaa tacaaattat cttgagatat attttttttt 180
 ctgacacagt tgtttttttt atactacatt attaatgtcg aatatccata gactttgtca 240
 aagattagct cttattagaa tatttgaata gccaaagtttt ctcagttaca ggactcaaac 300
 ctcacatctt atttaagaag atcgaattta gcattacgga gttattaatt cttaaacaac 360
 tattcatatt 370

<210> 4805
 <211> 462
 <212> DNA
 <213> Glycine max

<400> 4805

ggctcaatct ttacatatga gtatgctaac ctatgaaatc ttaatgtttc cttattacga 60
 taaaccaaag agaaggaata cgggtatcat atattcgctc caaaaaaatg tcaaaagata 120
 ggaaacttac cacattttga tgagtgggat catcttctac gatagtttca tatgaagatt 180
 gaatcgaaac aaagggacaa atctcaaata tggattgtgc atctgctacg gagtataact 240
 ccatatatag ccaggtgtgc tgaacagaac agtcccatcc agtcccact gtctacatga 300
 atccacttca ttgcgaacca ttactagaca ttaatcacia gtcaccaac attgagattg 360
 ctagtgatac ataggatgaa gcacggaaaa cactcagaag ttcttacact aatcccgcaa 420
 ctagaatctc gctttcttta cgaactccac aacatctctt ct 462

<210> 4806
 <211> 230
 <212> DNA
 <213> Glycine max

<400> 4806

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 gttattaagt tgtcttcaaa atgatagaca agagtaagac atactttgag tacaagacaa 120
 gggcaccttt acttttcata ttttaagacgt gtttgagtaa atagcttagt atttggtgaa 180
 taagttctta tcacatgaaa cttatgtata agtttacagt gaagggtatt 230

<210> 4807
 <211> 307
 <212> DNA
 <213> Glycine max

<400> 4807

aaaagcttga gcttgacctt ctttaataaac aaatcaagtc gagtcgaatc ttagataggt 60
 cgagtcatag gtccttaaca aacaactcaa ttcatttcca tctctaattg ggagagggca 120
 acctagtaga gattctctcc cttecttatt ttttttttag aagtaaaatt cactatacta 180
 aaatattact tatcatatac aacaatcatg atttttatgt aaattataat atttctctat 240
 tgaaaattaa tgattaattc ctgaaacatt gagattactc aagaaattaa ttcctctccc 300
 atatcta 307

<210> 4808
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 4808

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 gctgacaatt atgacgtttc cagcagccga tacaacctg gatggatgaa tgcccctaac 120
 ctcatatgtg acaggacctc acaacaacca cagtagtctg gtgcttcctt acaaaaagct 180
 ggtgggcaa gctgaccata cattcatcca ccaatccaac aacaacgaac cccccggaca 240
 cagccaacag ttgaggcgcc tccacaagct ttctctgaag aactagttag gcaaacgact 300

atgcacaaca tgcagtttta gcaagagacc agagcctcca ttagagctt aaccgatcag 360
atgggacaat tagc 374

<210> 4809
<211> 64
<212> DNA
<213> Glycine max

<400> 4809
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ctgg 64

<210> 4810
<211> 388
<212> DNA
<213> Glycine max

<400> 4810
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gcactaccac aacatctgag ggactcgctg tctgacctct atccatggac tcacccttca 120
ggaagacttt cggaccaggg atctcgatgt ccatggatcc actaccaact tcattaatac 180
ttgtttgagc tggtcaccaa gtcaaaccat tggttatgat actaactgat gtgaaactga 240
gggacgagtc catgcatgga ggggaaaaca atgcgtcccc tgtatcacia gtctacttga 300
cgagtgagtc catgcacgac aggctgagcg acgtgtctcg tagccatgaa tcagtggaga 360
gtggcgatca aggcactatg acatgttg 388

<210> 4811
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4811
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caagtactcg tttggttaag caaggaaatt gttgggtccaa caaaaatcat ttatgcgtgc 180


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<223>      unsure at all n locations
<400>      4812
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<223>      unsure at all n locations
<400>      4813
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2037

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ctcctttgcc ttccgtgca tctccat 387

<210> 4814
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4814

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attntggaag caacgggtgc aactccgtga cccgaaacca catgaccaa gtactcaact 120
tgtggttggg caaatgacca tttagagaac ttgagcacga attggttgtg aaggaggggc 180
tcgaatgctt gctcaagatg aatgagatgc tcaggcaatg tacgactata aattaaaatg 240
tcgtcaaaga aaacgatgat gaatcgccgg aggttaaggcc ggaaaatgtc attcatggtg 300
gcttggaaacg acgaatgtgc gttacacaaa ccanacggca tcactttgaa ttcatagtgg 360
ccgtggtgag tgcaaaacgc agtcttggcc acatcggatt catgcatnct tatctgataa 420
tat 423

<210> 4815
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4815

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cgctntttgc aaagcacttt ttttaatttca gtaagaaatt cttaggcact agttatatca 180
tctaaaacaa tgctcctaaa gatcttagga atgcgacgct taatgatcat aagactcatg 240
cgatttgagt gatccactt ctcatgaagt ttctctgtt aagagattgt ggaattcgta 300
ggagaagggg gtttctcaat ccttaatgca aggtctagat ccatgcagcc agaacaatt 360
tgaatgttct atttccagtc cttataattt gcaccattaa gaactggaac cgaattcaaa 420
ttagcagata tagaagcaac aacggttaag atcaaaataa t 461

<210> 4816
 <211> 521
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4816

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 caccatatac ctagaccctt tgtgatattg tcaatcctta cctcggacg tcttaataaa 120
 cgaatgaata tgtccctctt cttaaataag tgaaggcata tgtccattca cagacaaagc 180
 aattcatata catctcgaat gtttccagtc caacgctaaa agagaagaaa tgactttcct 240
 aattattgag tgggagaaaag cctcactata ctaaagaatt tttcctatct aagaatggga 300
 gacagttcta cgcacactga agaagacgat gatgagtga tgaatagctcc tgatcaagga 360
 tcgaaagata aatagaagaa atgtgcagaa atgtctttgg accggacaat atctgtacaa 420
 tacagaattg tcaccaaattg aacaaaatag agggaaaagga aaccaccacc tgacagtggg 480
 cttcttcctt tgnaccaac caaaatcctg tgcgttggtc t 521

<210> 4817
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4817

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 ttggatcaaa tggagaataa agaccatatg aattgctcaa gagcttccat tgtttaattn 120
 cgagcgtcta gatataaat gcgcctcaat cggacctnag agttaaagc tatgaccatt 180
 tgatatgctc acgagctttc attgttcaat ttcgagcgtc acgatatagt atgcacctga 240
 atcggacctg cgagtgacaa cttatgacca tttgaatcgc tcaagagctt ccattgcccc 300
 atcttgacgc gcacgatata ttatgcacct gaatcggacc tgcgagtga aacttatgac 360
 cattcgaatt gctcaaga 378

<210> 4818
 <211> 372
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4818

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aagctatcga gaaattcaaa tgggtcaatac ttcgaactcg gaggtcctat taagggtgat 120
aatatatcta gacgctcaaa attttacaat ggaagctcta tggctataca aatgggtcata 180
acttttcact cgaagggtccg attaaggcgc ataatatatc gagacgctca aaattgaaca 240
atggaagctc ttgagcaatt canatgggtca taacttgta ctcggaggta cgactcagct 300
gcataatata tcgtgacgct cgaaattgaa aatggaagct cttgagcaat gcaaattggtc 360
ataacttgta ac 372

<210> 4819

<211> 507

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4819

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tgtgcttaaa ggaaccatct gcacttggag tgtataggta agggaaacca gtggtcactg 180
actatcttat cagacacatt ggagctacct acccataccg attgatcttt gatcataggc 240
cttctgaaac gaacgtctat ccctctggtg tctctatcta taataacagg gaatcagaaa 300
cttttgagat gctttgtttc actccaaggg aactctaaca catectattg ttgatgcact 360
atgaaaagat agttctttct tgtggcagaa ccgagattga aatagaattt catgtgtcag 420
acatcaactt agaggatcct gaatatagtc caaggttcta gaatggagaa aatgactatg 480
acttgactga tatggatttg tgactct 507

<210> 4820

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4820

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aagcatgaaa ttgaacgaag aacaaggag agaagttgaa ttgtgagttg cgtctcacia 120
gactctcatt catcaaagtt acaacatgtg ttacacatgc ttctatttat agactaggta 180
gcttccttga gaagctctct tgagaaaact tccttgagaa acttctttga gaaaacttcc 240
ttgagaagct agagcttagc tacacacacc cctctcataa ctaagctcac ctccttgaga 300
agcttccttg agaaaattcc tcaagaagct agagcttaac tacacacacc tctttaatag 360
ctaagctcac cttcctgaga tgagaagcta gagcttacct tcacaccct at 412

<210> 4821
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4821

ccttcaaact aagcttggca ataaatactc ctacatttat ttcttcatgc tttgtatggn 60
ggcctcgacc ttgtcacgg gaagccggaa ggtccatctc accttcttaa ttgtacacat 120
ggggcactac gccccaaat gcgcaagtaa gaagagataa ttctccgggc tctcgtgtcc 180
gtaaaatgca ttcatatcat gcctcgata agcatctctt cataacatca taatggacat 240
atcctgcatt tggctgttat catattccag cctcacattt tgcctgagtc atggcatcat 300
catgcatatg cgttcaacia actttttgat ctgcgaaatc gcataccata tgttttcatg 360
tttgcctatc cttgcgttnt cctctacaca acaaacacia aaaaggggga agcgtgaaac 420
ttcacactac attc 434

<210> 4822
<211> 407
<212> DNA
<213> Glycine max

<400> 4822

tgcttcgtgg ccaaactctg tatttgttta atcctatttg tttcatccc agatttagca 60
aatgcaatca ctatatatat atatatatat gagagttgct aatgcactta catttaattt 120
aaaatttagt ataaatgcat taacaactaa catcataaat ttttgataaa aaaaccaata 180

atctcttcac ttataataag aatatatcgg taatttaata tcaatttttt taaaacaatt 240
 aaaagagtca taatagtgt cataaggcac ttctttcttc tttttccttt ctcttcacat 300
 ggtaataatc atggttcata attcacactc taaaaattta agtcttctcc gagctaaccc 360
 acttcatcca tatgaaaaaa tcttaaactc aaagtgaata gcaactg 407

<210> 4823
 <211> 1034
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4823

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 ttncaaanct ctctgaggcc aatgttccaa aaccgtgaca atatactttt agtacctaca 120
 agaangngct cttattatga agttccccga caancntaat gacaagaact ncggccgcac 180
 atatgtaaca caccataaag catcccctgc ctacatctca ctaatgggca nataaacttt 240
 gtgtataaca aacgtatcag acctgagtc tggggcaaat actatatatg agacgtctcg 300
 ggatagttga caaaacacta tatatttagc agccaatctt tcaaaacacg acactttaca 360
 gaactgcggg cgaaatgatc caacaaccat atcgacgtta aaattatgaa ttaaacacta 420
 ccccnacccg ataaatagga aattgctttg gcgaggttga cgaacacacg tttcaatagt 480
 gaacagaccc cagttattgg tttctgcctt gaaccataaa attctcatcg tccaaaagaa 540
 aaccacgccc cccaatatg acttccatgt caccaccgca atcttgagtt cctttcaaag 600
 ccttttatat atcacaaata acccgcaa at ggggacaaac gccnccgaac caaaaaagta 660
 atccctgggc gctgcatatt cacgtattga atcgcgaaac atttctggta aaatttttga 720
 gaaggggtgc cccaaaaatg gcgcctataa ctttgtaaag ggaaggtgaa acttttacta 780
 aacgaggcca ctgtgttcta aaggagagac caataatcga tntgggtccc ttcgccatac 840
 gcccaaataa tttaaaacg tgggtgtttct tgggctctct gtcttaacac aaaaaagac 900
 ggtttctctt ccacacaagt gcttgcntga tacaccaa at ctcttttctc tttagacttt 960
 tgcggctctt cccgccatct ccttaccctg ttttctagca aattcgactg cgaaaatagg 1020
 gcgtcccttc ttcc 1034

<210> 4824
 <211> 549
 <212> DNA
 <213> Glycine max

<400> 4824

tgcttgtggg gcttctatgg aggctggatc tttgagcttc aatgaggtcc tttaatggtg 60
 attttccacc atggagatgc aacggaagac aaaggagaag aggtgagagg aggcgccatc 120
 cattaaggaa taagccatgg aagaaggagc ttcaccacca agatgagcat tgaataagaa 180
 gcttggagat gatgcttcaa tggaggaaaa gaaagaggga gagaaagaga gagggggggag 240
 cacgaaattg aaggaagaaa aaggagagaga agttgaactt tgagtttgtgt ctcaacaagac 300
 tctcattcat ccaagttata acaagtgtta cacatgcttc tatttataga ctaggtagct 360
 tccttgagaa gctttcttaa gaaaacttcc ttgagaagct tctttgagaa aacttccttg 420
 agaagctaga gcttagctac acacacccat ctaaaaacta agctcacctc cttgagaagc 480
 ttccttgaga agctagagct tagctacaca caccatcta aaaactaagc tcacctcctt 540
 tgacaaata 549

<210> 4825
 <211> 678
 <212> DNA
 <213> Glycine max

<400> 4825

tcccaagttt ttaagttctt cctcaaaact gtcctaagca aagttcccaa agtcctatta 60
 acaacttccg tttgcccacg ggtttgtggg tgacaagtgg ttgaaaataa caatttagtg 120
 cccaacttgc tccacaaagt cctccaaaaa tggcttagga acttagagtc cctatcacta 180
 acaatgctcc ttggcaaacc atggagtctc acaatctcct tgaaaaacaa atcagccaca 240
 tgggaagcat catcaatttt ttacatgga ataaaatgag ccattttaga aaacctatca 300
 acaaccacaa aaatggaatc tctaccattg cttgtttttg gcagcccaa aacaaaatcc 360
 atggataaat caatccaagg atactccgga attggcaatg gagtatacaa tacatgaggc 420
 ttaccttag actttgcctt ttacatata atgcaatgtt cacaaaattt ctgcacatcc 480
 tttttcatat gaggccaata aaaatgttct tgtaatgttt ctagagtctt ttggacccca 540
 aaatgcccc aattaacctc ttcattgtgt tcacaaacaa gcaaatttct agtagaacat 600

taggcacaca caattgtttt cttgaaaaga aagcttcacg tctaaaaaac atttctgaaa 660
aatttcacaa ttttaaaa 678

<210> 4826
<211> 552
<212> DNA
<213> Glycine max

<400> 4826

atatgttata tttaatcatt ttaatatata atactatata tggagaaaaa tacttatttt 60
aatacataaa tattaaatta ataacattaa atgcaacctt aatatttttg tttaaatctc 120
gtttaaaatt ttaaatttaa ttacttaaaa aatatgtatt aaaaatattt tttttacata 180
tatagttaaa tataaattaa aatatttttt tgggtaccat gcaatttata taaaatattc 240
acctgcttta actttaccga aaccttaaag tttttatttt ttaaattccg aaacaaatta 300
tatatattag aagtaagtat cagagatacc ttaagaacaa aatataagcc caacattcag 360
caactcgggt aatcaatatt aatatctgat caaaagatat aagattaatt tgataaataa 420
aaattaaaat ttaagagtga aaagagaaat tgtgagttta aatttctgtc attaatattt 480
ctaacaaaac taataaaata actcatttac tgaaaaaaga acacctcatc cgattaaata 540
taaactaacc ca 552

<210> 4827
<211> 461
<212> DNA
<213> Glycine max

<400> 4827

aaactttcta cttttattcg ttgaccacag agcgggtacgt ggagatatgt ctcggggggtc 60
aagaaacctt ggggacgtca ggtgggggtac tattgcccac aaccaagctt gaccaatccc 120
gacccaaccc gggcgtagtc agtccgtgag aacctgtgac gtacctaaac aagtgtgctc 180
ctggcagtc accgattaaa gaacaaagac cacaagcat ggaggcttgt gtggtggctg 240
gccagctatg gatcttgagt gatattctga atatggcctt tggtaatcga ttaccaaggg 300
tgggtaatcg attacaaggc ttaaaaaatga agacaggaag ttaagatggc ctctggtaat 360
cgattaccaa ggatgtgtaa tcgattacca ggcctagaaa tgggatcatg aacgcgagac 420

agcttctggt gatccactac cactgctgtg tgategatta c

461

<210> 4828
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4828

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tttggccagt agtcccagat taaaaccccc tccttcataa tggcaaatat ttggtagaca 120
actatagact tccccggcca cccaaattga cgcaagtttt gtccatcaat tttatttaca 180
ccatcaaaac tagactttaa agacagtggg agatatcaaa acatatgagt taaatatgat 240
taacaaacct accgataata gtttttggtt ggcggtgag gaacaacgtc agaaagtga 300
ataccccact tgttggttc tgccttgaac catgaaatct catcctccag agaagccacg 360
ccccccaata tgacttccat gtcaccacgg caatctgatt ccttccaagc ttttatcagc 420
acactagccg canatgggac aaacgcccga acgaacaagt aatc 464

<210> 4829
<211> 596
<212> DNA
<213> Glycine max

<400> 4829

tgcaatgaaa gatatttgt atgtaagagt ctggtgtcaa tctagacaca caaaccaagg 60
ccataattca aaataggtaa gatagaaatg atgatagtca ttggcacaaa cattgacttc 120
tgcaactgct actaagcttg caatcaaaga tattgtatat atagtaatta actttccatt 180
cagcaacaca aatttggttt atttgtacgc ttaaatttgt tagattgcct attcaatttg 240
aaatgtcaaa tttctatctt acatctttta tttggacaat atgtaacaaa agatgcaaca 300
aagaagtta ctaaacctta tattagagat ggacatcagt tctttatata ttgcttgtct 360
ggcgaccac aaattatfff ttgatttctt ttgtccaaag attagacttg ttttatatag 420
ttctcgtttg ctcaagttaa aatcggtatt atacttgcgt aagccatcaa tgaacttaaa 480
aatgacaatt gaaatacaac acatgaattt aggcaagcag tgatagctga aaaaatggag 540

tatgtgagaa tgaatgcact tataatctaga gggatttttt actgatacag atgata 596

<210> 4830
<211> 515
<212> DNA
<213> Glycine max

<400> 4830

tgagatgagg aagtgttgaa gggtgaaact tcctgctttt attgttgacc acagagtggg 60
acctggagat atgtcgcggg ggtcaggaga ccttggggac gtcagggtggg gtgctattgc 120
ccaaaaccaa gcttgaccaa tcccgaacca acccgggcat agtcgggtcag tgagaacctg 180
tgatgtacct aagcaggcga gctcctggca gtcaacagat aaaaggaaaa aacaagacca 240
caaagcaagg aggcttgtgg tggctggcca gctgtgaaac ttgattgata tgtgagatat 300
ggctctctgt aatcgattac caaggggtgg taatcgatta caaggcttaa aaatgaagac 360
agggggctaa gatggtctct ggtaatcgat taccagggga tgtaatcgat taccaggctt 420
gaaaacggag tcaggaagct aagggagcct ctggtaatcg attaccagcc tgtgtaatcg 480
attacacaga gggatgggtc acttgtaatc gatta 515

<210> 4831
<211> 420
<212> DNA
<213> Glycine max

<400> 4831

tgcaagcaaa ctggatgcgt tgggtcaactt ggtaaccag ctggccttga atcagaaatc 60
tttacctgtc gcaagggttt gtggtttgtg ctctctgtct gaccaccata cagacctttg 120
cccttccatg cagcaacctg gagcaattga gcagcctgaa gcttatgctg caaatatcta 180
caatagacct cctcaacctc agcagcaaaa tcaaccacag cagagcaatt atgacctttc 240
cagcaacaga tacaacctg gatggaggaa tcaccctaac ctcatggtt ccagccctca 300
gcaactacaa caccagcctg ctcttctctt tcaaaatatt gttggcgcaa ccaaaccata 360
cattctcca ccaatccaac aacataacca cccataaac agccaacagt tgaggcccct 420

<210> 4832
<211> 247
<212> DNA

<213> Glycine max

<400> 4832

ttgtccatca attttatttta caccatcaaa actagacttt aaagacagtg ggagatatca 60
 aaacatatga gttaaattatt attaacaaac ctaccgataa tagtttttgt ttggcggctg 120
 atgaacaacg tcagaaaggg aaatacccca cttgttggtt tctgccttga acatgaaatc 180
 tcaccccaa agaagccagc cccccaatat gacttcatgt aacaccggaa tctgatttcc 240
 tttcaag 247

<210> 4833

<211> 1127

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4833

ccctgctacg cgcggncacc aanacacgta gtatgcgatc gacttactan gcatctcgcc 60
 cntgagngac atcctccttt tcctccgcgn gtctacactt ctctctgaca gtcatctcgt 120
 actctccant cccaacntta ttactactac cccatanatc gcccctcga cancnncnnc 180
 tttggaaaac ccgctaggag cntttgngca taagcactcg cggacaanta ctgcagaaac 240
 aactnntaga gacgttccgt actatagcat gggacanaat gctctcggcc aacgggctgg 300
 anaacacngc ttaacatggg ctgtctctct atttggttcc tactccagca tgcagatcgt 360
 gtcacccctc ggctaataat gataggtcgg gcagtggcgc ggacaaccgg aactacagcc 420
 ctcgagcggg actccatcat aagcagtgcg tgtggactca gtgtgacacc acacgtagca 480
 ccggctctgc aaacacatat actccaccct cggctcccg cgacatcacc gcaagatcca 540
 ccagactaag cctgtgtatg caaactaagg ccggcggaac accctggctt ttcaaccgat 600
 tgaacgaaaa aatggacaac ggcgccctga aggcgctcgt gcgtgcttgc ccccgtagaa 660
 ctatattgac acgcgagata ttgccctctg aaaacaatta ccactgggtg cgaatcgatt 720
 accaaggcct aaaaatcaac acacggggcc taaaacgaac ctggagattc aacaccacag 780
 agatgcataa aaaaccaggc ttgaaaaacg aaacaagaaa ccaagggagc ctctgggaat 840
 ccattaccac cctgggtaat ttaataacaa aaacaaggg aaccctcac caaataacca 900
 ccttggtgta tccaaacact gccgggcac cccacatcga actcctaggg gaacaccaac 960

acgaaaaacc ctgaaacccat tgcaaaggcg gaccacaata cgctccact caaccccata 1020
 tatctccaat atcctcctcc tagcctccta aacccaactg acactcattt tataactctc 1080
 gccgaggcta caaccgcaca ctttcaaaag gaaatccacc ccccccg 1127

<210> 4834
 <211> 1013
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4834

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 atacgaagga gtnataggtt ntaatacaaa tacnctnctn nncnnncnaa nancacaag 120
 gggtnnnaat gatggntgat ggnacnntgc nnaannnngg nggaanagaa naaaaaanna 180
 gagggnaag gaaaaanaa angaaaaaga aagagggaaa atttggtgat ttattttagg 240
 gganaanaga gaagaggaaa agtgtgatta taatatagaa atattntta tatgtaaaaa 300
 atttgggatg gtagagaaaa aaaaaagggt ttttaaaagt aaaaatagga aaaataaaaa 360
 ttaaaaggga aattgagagg ggtgtaaaaa taaaagaaaa gactaaataa tgggggttaa 420
 aagaatagac tgaataaaaag ggaaataaaa aaaaagatct gaaatttaa aaaaaagat 480
 ggtgtaaaaa agaaagaata gtggaaatgg aaaaaagga ataatagaat attaaaaata 540
 aaataaaagg aaaaaagggt ggggagtaga agggaaaaaa agaatagtgt atgaaaaaaa 600
 ttgggaaaaa aggaagaagg gaagaaaaaa ganaaatgta ggggaaaaaa gaaaaaata 660
 tattaaaaga tatgaaagag atggaaaggt aatagaaaaa agtatgggaa ataagaggat 720
 ggaggagaa agaagaagggt tgaaaaatta aaagaaaaat ggggtagaaa aggggaaaga 780
 ggaaaaaaag gagaaaagggt gtaatttaag gataaaagaa aaaaaggaaa gaattgaaaa 840
 gaaaaaggaa ttattgaaag agggatgtaa atttaaaaaa agtagaaaaa ggaaaaaaa 900
 gaggcgagga aggaaaagaa gaaaagaata gaatgtaagg aaatggtaaa aaaagtaaga 960
 agaaaagaaa gaaaaggagg aaaaaggtta agagaaaaaa gaagaaaagg gan 1013

<210> 4835
 <211> 541
 <212> DNA

<213> Glycine max

<400> 4835

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tgtcacttta attgctcaac ttttaataaa tgtaaattt acttgcttca atttataatt 120
ttataaaagt ttttaattga tctataatat ttaaaaaaaa atattattta tttaaatcat 180
tgatgtcacc taaaatataa taaaacaata aagtaaataa tatttttttt attaaactac 240
gggttaaaat aaaaaagagg gcgttacttg agacatccaa caattttgtt ggggcaccag 300
caacattggt gaaagggcta aaatgtcctt cattattttg ttataaaagg ttaaagtgac 360
ttgtccatac gagtcattat tcatttttct ctgcaccgc tttcttcttc ttttaccttg 420
gttcttcgtc ttctctctct ttcgggcaact cttttgtcat ctctgtcttt tctccagtgc 480
tgcttgatct tctcttttcc tccatatctt ctcttggtct actgcattgt tggggaatt 540
g 541

<210> 4836

<211> 584

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4836

tctcatggct atgagaggct aaacccccat tggtgggagc ttggcatgcc aactcttggt 60
attcgtttag cctatttcat acatttctga tcttaatgca atttattatt tttatctttg 120
caaagaaatt tgggagaaaa gaataaataa attaggctct tcatgcggga aatcaaatat 180
aaagtgtctt agtagatgtg ggtggaaca aagatttcat tagatagaaa aaaaatcatt 240
aacattgcat cacaagtagt ttggcatgc taggctccaa cataatcaca ttctgaattc 300
atctttcggc atttaaatta ttgctcattt ttcttggtat ttcttcttt tctttttatc 360
cccaattttc acacttaca ttccttatct cttctacttc ttctaattgc ttaataattg 420
tgtttgcac actttaagta caatcaaagt ctctgtggaa tgcactctcg aacttncgag 480
tcttttacta tttaaaacga attggtacac ttgccanaga gttaatatat gtgtgatcaa 540
tcccttcgg nggcatectt tatgtattct attttgaata cata 584

<210> 4837
 <211> 553
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4837

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 tcatgagaca gtttggcaaa gaaagcagta gcaagggcag tcttgccctat gccacctatg 120
 cccaatattc caaggggttct aacttcattt gaccaattt ttagtgatga ttcaatctgt 180
 tcataattgt cctcaattcc aaccagtcct tccagtttgt ttgggtatct tggagtcagt 240
 ttttgcaaaa catccccaac aatgttctta aggaattcag attcaatcgt accatatgaa 300
 aaggggaaaa aatgaaataa atgatgtatt gtaagtctaa caaattcaaa agaaaaagaa 360
 aatagaagta cacaaatgat tgattatata taatctagaa acaatatggt attgtagtag 420
 ataaaacaaa gggaaaaaag gactangaaa ggaaaatcca atgtcttaga gcaaataatc 480
 tatgtctctt tttctactca acgaaatgca ttgcanacta catgaaagtt gtatactaca 540
 aaaaaaaaaa aaa 553

<210> 4838
 <211> 520
 <212> DNA
 <213> Glycine max

 <400> 4838

cttgcttcag ggtgacttaa aatatatcta aatatccaaa atatctattc atatgaatat 60
 gtgaatattg taaatattct atcttcatcc ctctatatct gaaaccccat aatttcaaca 120
 cgaagtgata tacatgtgtt gcaccttaat ttgggtgttt cctttggtgt cggctgaaga 180
 taacactgta atgtcttgtc tatgttttat ttcacccaaa gcacatgggt ggttttcttt 240
 tgttactcaa tcaacttatc tgcaaattca atactttggt gcgtgacatt ttggaggaaa 300
 tatttccatc tatcgccgag cggatattca ctgttattcc tagaaatgga ttaccttctt 360
 ctggttctga tgcaatcact gaggtatgaa aatgttgatg cagttaccta ataaatagct 420
 gggttttttt tggctctttt cttttaattt acttgcttta agttacgttt gtatatattt 480
 gctatatgaa tgctctttat gacttgatta ttgttcatta 520

<210> 4839
 <211> 565
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4839

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gaacacaaaa gcatgattga ttagagaaat atcttcatat gcatcagctt gtttggttaga 120
aagacceaat gctttttacc tattattgtc aattttactt atttgcattt actgttttta 180
ccatacaagt agtttatattt tgtttttaac catcgtttat caatgttatt ccaacaatgc 240
ctgattttcta aataaaaactc tgtctaataa gcaagttccc tgagttcgat actcggatca 300
ctccatttta attttaaata cttgacaacc cgggtgcgctt tccggcaaatt cagatttccc 360
ttgaacatat ttgcataaag gaaaatggac caaaaagtaa ctgcagggga aatccaacac 420
ctttctcaat acatttgaag cacttgatgt tactagttat atcttgtgaa ctagcctttg 480
gagggatttc ctctatgttt ntacccttat catcctttgg cttcgaagggt ggtactccta 540
acacacttgg agcttgcctt ttttt 565
  
```

<210> 4840
 <211> 320
 <212> DNA
 <213> Glycine max

 <400> 4840

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tttcgtctta cagaatgcaa aaagtttata cggataacca ctccggtggt ttcgcccgtc 60
agcgtgactg ataagtcagt atgacagatc ttgtgagcgc ggaagataac gtaaattctc 120
acgtgtcaac aggcttgtct gccgcgattg acgaagggcg cagaagacga cgttagtctc 180
tgctgtctat caggcttttc gtcatacaga cagcaaaaag tttatacga taaccactcg 240
ggtattttacg cccgtcagcg tgactcaaaa gtcagtatga cagatcttgt gagcgcggaa 300
catgacgtaa atgtccacat 320
  
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<210> 4841
 <211> 591
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4841

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ccttattttc atggttttgg tgaacaagta tgttatttga ctatgtggat tttataagtt  180
aatctattta tgattgctac ttcattgggt tttttcttc atgttgaggt tactattttt  240
tatgaatggt gtacgaatgt ttaagatata tgtgcatact ttaagtttga tacgcacttt  300
ggctttttgt tgatgccaaa ggggggagaga aatagggatg aatcaagaac tcacatgagt  360
aaataattta attttaaaat aagcataaat tcaaaaacaa agggggagca tttataagag  420
tgatcgacta ggaaaaagtg tgtgtgtgtt tcttgatttc agaagttgtc atcatcaaaa  480
aggtggagat tgtggaagca aagcttcatg atgaatcana aatgattcaa agggggttga  540
tgatacaatg atgacaacaa aaatgatgac aaggcgatga acaaaaagctc a          591

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<210> 4842
 <211> 496
 <212> DNA
 <213> Glycine max

<400> 4842

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tgccttccaa gaatgatatt gcggttatca tgtacacaag tggtagtaca ggtctgccaa   60
aggtttgttt cttcgtcaag ttttggttaa ggtgtccctt tctgtgtgtc tgtgaatgta  120
taatctctta ttcatttttg tgatttgatg caaagtgtt ttgtccagag tcatgcttgt  180
gaataatgat tttgggtgat aaaatatcaa caagaaccat atcaagacat tgtattaata  240
taatgaaaat tttcttgtct gcaacattga gaaccaatag gatctccctc agctcagttc  300
tatgattccc tttgatttga cagggtgtta tgattactca tggaaacatt gtagcaacaa  360
cagcagcagt tatgacaatt attccaaatc ttggtagcaa ggatgtgtac atggcctact  420
tgccccttgc tcatgttttt gaaatggcag cacaggtaat ttcttcttag ccttctaact  480
gtcaaagtag ttgatg                                     496

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<210> 4843
 <211> 486
 <212> DNA

<213> Glycine max

<400> 4843

ctaattaacc taaaattgag agaaaatgat tttttaacac acaaaccgga agtactaaat 60
 atttattacc aaataaattg gaataatctc atacaattta cacaagtttt atacataaaa 120
 ggtagtgatt ttcaccgact aacagaggcc tctacaatca cctttcctcc ttctctatta 180
 tactgccatt gatcttcaag aagcaaatga ctctattgat gaacaacatc caaagtctac 240
 aagctccaca tgaagctaca tcatgtggga tcaagaacag cttcatctac gagaagctct 300
 tttgcttctc ctatcttttg cttgggcaat tcaatttaac aacgtattct taacaatttc 360
 tccatgtatc tgcttcattg ccttgcggtt tggttctgct gaaagtttat tccaataaac 420
 acaccgattt aatcctacat ctacacttgt tattggattt ctatgggtca aatttatcca 480
 tataact 486

<210> 4844

<211> 627

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4844

agtgacctat aaaaccagc ttccgttaac aaattattga actggagaac gataaatcaa 60
 attccataag tgaagaagac aagggaatgt aacttacata gcttattaaa gctactgagg 120
 cattcagaaa aaaagaaaga aaaaaagcta ctaggagcca tatagtcgct cctcgcaact 180
 taaatcacgc aggggtagat taaacaaggc caaagcacia aaggaagaaa ataatcata 240
 acataccaaa aactaattat ggtattaaat gaatatgttt tcatttcata tatgttttga 300
 ctataagttg gcccaattca ctatattttt ccaaattccag aaattcacia gaattataaa 360
 accaatatat atatatatat atatatatat atatatatat ctcgtttcaa ccaaccaaca 420
 aaactataat gcaataggaa tttctactta aaactcaata tatcaaggat taattaaaca 480
 aacataaact gacaatctca acaaattaat aagcatgtng ccaggaacat aaatgaaacc 540
 ctatagaaat gagggaccg gaaaaagaaa gagaatcttt tgaggagcac atgcaagcta 600
 cntnaaactt tacatctagg gttatac 627

<210> 4845
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 4845

tctacttatg tggcagggcg ggcttccttc actttcttgt cttccacgag agctctgacc 60
 actgctcttt cttcccgcga tgcttctttt catgtacgcc tgagtgggct tatagcctaa 120
 accatacttc ccacgatttc cttgggcatt tatcaggcta gttatgccgc cgctgtcttt 180
 gcctaaaccc attccgggtt cataaccgtt cccaacata actcgggcca tcattactgc 240
 tgcacagac agacaaggct gcccacagaa ggagtccacg gaggaatgc tgaccacctc 300
 caaagactgg aaagtgggtt ctaacgattc ttttgccggt tccacataaa gcatagagga 360
 tgggcagctt accaagatgt cttcctcgcc tgacacgatg accaagtgcc cctccactac 420
 gaatttcaac ttttggt 437

<210> 4846
 <211> 615
 <212> DNA
 <213> Glycine max

<400> 4846

gaaagataga acagccaaaa agactgacaa actgacatga ataatgtact attgttgtaa 60
 gcttttcaag gaatcaccgc atcctgatga aaagcagagg caacaactca gcaaccaact 120
 tggccttgct ccaaagcaag ttaagttttg gttccaaaat cgtcgaaccc aaatcaagg 180
 atctaaattt atttacctaa atattactca agaatatatg caaacttaat ttattttaatt 240
 agaaattatg taagcattat gcaatattat tgccttttgc aggcaatata agagcgccat 300
 gaaaattcat tggtgaagac agaattagac agacttaggg aggaaaataa ggccatgaga 360
 gagaccataa acaaactttg ttgccccaat tgtggcatgg taacggctac catagatgct 420
 tccatgtcca ctgaagaaaa acaacttctt attgaaaatg ccaaactcaa agccgaggta 480
 ataaatttgt ataaaactaa atctaaatac aaggaacatg aaactttaaa aaaagaaaat 540
 gtattaatgc tagaataatg gtggatctat gtgtcaaagt acaaactaca atcttaatga 600
 aaagattccc taata 615

<210> 4847
 <211> 684
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4847

tatatcgttg ctagcaagca gtatatcatc gacatataac accaagaatg agtatttact 60
 ccactaaac ttgtggtata cacaatcatc aactgcattt gcctcaaac catatgaggt 120
 aatgacttga tggaacttgt aataccattg acgggaacct tgcttcaaac catagatgga 180
 cttatttagt ttgcaaacca tagactttga gtcacctgat acaaagtttt ctgggttgc 240
 catataaatt gtttcttcaa tgtcaccatt tagaaacata gtcttaacat ccatttgatg 300
 tagctctaaa tcataatgag ctaccagtgt cattattggt ctaaaagaat cctttgaaga 360
 tattggagaa aagggttctt tatagtcaat gccttccttt tgggtaaatc cttaggcgag 420
 ccttatatct ctcaacattg ccctttgaat cccttttgat tntaaatata catttgtaac 480
 caatagggtt cacactttta ggcaattcga cgagatccca aacgtcattg tcttgatatag 540
 atttcatctc atctttcatg gcattgatcc aattttgaga gttagaacta cgcattgactt 600
 gtgataactg ctaaataatt gtgaataaat gtagaaaatt agccaaattt ttgcttttaa 660
 atattattta gcagttattt gtga 684

<210> 4848
 <211> 338
 <212> DNA
 <213> Glycine max

<400> 4848

gattgatggg gaccccagtt gatagaacga gattaggcta cttgggagta cctgagctca 60
 gttgaaagtg ggctactggg gaatgtgat ttatgtgtga ttcgtggatg tggatagtcc 120
 acttgcacca ttgctcgatc gcgagctatt accacatgtg accggtaccc gataatccta 180
 caagcttgaa gtgaggaagt ggggaatgga gagacttctt actttttattc gttgaccaca 240
 aagaggtacc tggagatatg atccgggggt caggagacct tggggacgtc aggtgtggag 300
 acttagatca taaccatact tgacccctgc tcacccca 338

<210> 4849

<211> 242
 <212> DNA
 <213> Glycine max

<400> 4849

ccttcccgcg aagcttcttt tcatgtccgc ctgagtgggc ctataaccta aaccatactt 60
 cccacgaatt cggtgggcaa ttatcaggct acaaatgccg ccgccgtctt tgcctaaacc 120
 cattccgggt tcataaccgc tccccaacat aactcgggccc atcattaatg ctgcatcgga 180
 cagacaaggc tgcccacaca aggagtccac ggaggaaagg ctgaccacct caaaagactg 240
 ga 242

<210> 4850
 <211> 958
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4850

cgccccgcac cgctgttatg ttacgcccc gtccagatac cgaccaaaca ctttcgccct 60
 ctctncacc cccccccgcg nnttgaatct tggcntggag acccttagaa acccaagcct 120
 ctacctatgt cgcccgcgcg actgccacca ctaaaatgac tttcactcca gcccttagca 180
 caggtcttcg ctccgacaag ctgatttcca tgtccaccgc cacgggctta taacctacac 240
 catacctccc acgaattcga cgggcaacta tcaggctaaa cataccgcgc ccgtatttgc 300
 cgacacccat accggggtca tagaccgctc cccaacaaaa ctaggggccat aatcactgct 360
 gcatcgga aa cacaagctg cccacgacaa cgaagtgcc gcgagcgaag agcctgtccc 420
 accctccaca aggactgcgc atcagtgtgt ctctaacac aaatcatcag ccggcattcc 480
 aaagtgaggc attagaggat gggggccggt cccaagaaga gctgctgccc cacaagaaga 540
 ccaagcgccc ctcccctacg aattccacac ttctggagaa gtgaacaaag ggccaaaatt 600
 ccattgacg cagaagtcac cgccgcccc aacaaacgcc ggtaaggggg cgggcccat 660
 ctcaaagcgt cgaaaagcga ctccgacagc gagcgaacgg accatacgaa cacggcgaca 720
 aaaaaacccc ccactgggc ccaacagacg aagagccgct cacaagcccc aaaccaacac 780
 tcggaaaaac gcgatcagtg tggcaaccac cgccaagcga cgtccgtcca caaaggacaa 840
 aacacgccc caaacacac cggcacgccc ccaagcctct gcacgccacg acccaagcgg 900

caggcaaaac tacatcacgc gcgtcagggg aaaggctcga ttcgcccgcg atcacccc 958

<210> 4851
 <211> 883
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4851

ccccccgccc ccccggtgctc atcgcgcggc atcttcttta ccccgcttct atctctactc 60
 ctctcttttc ngcccccccc ccttcttctc ccgcncccc ccccntttga cctgatcgct 120
 gtttaggggg actttaaaact cagggtgggag cttgggattc ttttaaaagg ggactttaaa 180
 aatgttgaat tttaaaaaat ctcttaaaaca ggctctttga aaaatgggaa cttttggaaa 240
 ggttttttct aaaacaaccc ccggtgaacg attaccctt aagggtgatt cggtacccat 300
 taaccaaagg ggctttttct tttggatttt tgaaaataaa acagttaaaa gctctggtga 360
 ttgattacaa acattggggg attcaataca ccaatttaaa atacttttaa actggtttaa 420
 cataaagtat aattattgga atttgaaaac ttaaccgtct taaacactgg taattcattc 480
 ctacttttgg gtatcgatta cacaaaagaa aaactctttg ggatgaatta atggaaacct 540
 tcttgggggt cctaataatt tggaaaacat ttttagact tattctgatt gagccttctc 600
 ttgattctga aacttgacct gataattttg aatcctgaat ctggaaattt ggatttttgt 660
 tgaccctgaa tctttgggta atcaaaaaac ctggaagaaa ttgttcccac aagattattt 720
 gaaaatggtg aaaaaaaaaa aggcgctttt tctttcgcgg cttgacaccg gaaaaaatc 780
 ttgagaaatt attcccaaaa taatccagtt ttaaaaaatt gcctttaata gggaagcccc 840
 tctttaaatt ccgataagaa aaggacaaca ccccatccaa tgc 883

<210> 4852
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 4852

tctattctga atgtcaagcg tctcgatata ctacaggaca ctatcaaata tccgagtaaa 60
 aagttattgt cgcctgaatt tgcttagagc tttcgtttcc aattttgagc ttctcgatat 120

<400> 4853

<400> 4854

<210> 4855

<211> 511
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4855

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 tcctacaggt ccaaactcaa aaagacccat tgatctgtga tgattatgcg cattaccctt 120
 tgatttgatg ggaaatgact tgcaaaatcg atttatgacg tgtttgtgat ttggaattga 180
 gaggagacac ttgccagtgt gagattttat acacctttga gtggttttcc tccattttat 240
 tgaatctagt gtttcttcta atgtttctgt agaaaagaaa tgcaaaatgt cttaatctca 300
 ttcttggtta tgagaaattc tatctttgtg ctttcattcc tcattcgtgg cattattttt 360
 gaaaaaaaaa gtgtgttctg atcggtttgg gagtttgatt tctttaccaa gtgtgttcgc 420
 attttaatgg aagttttcac aaactccaat gccttctgtc ttttacattt caaagactgt 480
 aatgtcttca gtcttttaca atttcaaaga c 511

<210> 4856
 <211> 586
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4856

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 agtactttcg acacctactg tatgttgatt tcaccaacgc tgttatcggg atgttgcgac 120
 aatccttcaa aaccttattt atacattcag agaagttggg tgtcatgtga ccatattgac 180
 gtccttctct atcataagcc atgggtctatt tttcctttga aatgcgatca atccatgttg 240
 ctatcgtcgg actcagttgg cgaaattttt ctaaattttg ataaaaaaaa tatgcttgca 300
 aggagtgtaa cctgcatgaa attagttagc aacaacaatt ttaagtatat gtcaaactta 360
 aattaagggtg agcatgatca acgaaatggt acccaatttc ttcaacattt ctttttgttt 420
 ggcattattg aatttgatga tgaaattgct cgctatgtgt cngacgcagt aaacatgata 480
 accgtgggga gattgtcaac caagcgcttc attagccaca acgaacttta tactcgcgtg 540
 acgatcagat atgagacana taccatnntt atctatgaca tgttca 586

<210> 4857
 <211> 531
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4857

tcttcaattt ttttggattg atgctcttaa gacggttgcg tatatattaa accgagttcc 60
 aaccaaatt gtctcaaaga caccttttga gctattcaag ggttggaac caagtttgcg 120
 acatatacgc atttggggat gtctgtctga agtaagaatt tataatccac aagagaagaa 180
 actagaccct aagaatatta ctgggtattt cattggatat gctgaaagggt cttaaagggt 240
 taggttctat tgtccatccc acaacactan gattgtggaa tcaaggaatg caaagtttct 300
 tgaaaatgac ttgatcagta ggagtgatca atttcagaac atttcttctg aaagggatca 360
 ctatgaagct taaccttcta ggacaagtaa taggttggtg gtcattccca cccctcaagt 420
 taaaatgggt gttagacaac cagtgattga agttccacaa gctgttgaaa gtgatcatgt 480
 agatcaagtt gtttgtgagg aacaaaatga tgatattgaa acaactagtg a 531

<210> 4858
 <211> 361
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4858

tatagagctc tgtagtgggt tgtaaatgga ataacgattt aaacaaatga attaatatat 60
 tcttggactt gannagaaga ttannaaata gtaccatatt ttaatttaag atgcccgaag 120
 cttcgacaaa ataccgacaa caatttattt aacgaaaaaa ataagtattt ctattaaaaa 180
 aacttgtttt attcaaatat tatattttat caaaaacaag aaatttggaag aagtaagtaa 240
 ttgaatttct ttatccaagc ataaaattct aaaaatgaag caatttattt tattaatcca 300
 agcacacaat tttgaaaatg aaataatttc atatgaagca tttaaaattc tatagaattt 360
 t 361

<210> 4859
 <211> 444
 <212> DNA

<213> Glycine max

<400> 4859

ggataatgtg agtgtatgta tacatgattt tgatgatgtc aaaagaacaa tcagacgaag 60
gtgcttcaaa ggataagcat ggcttcaaga ttaatacaag actgattcaa caaacaagc 120
cttgcttcga gattaactca aagatcaagc cttgccttaa aacaaatagc tttcaagaca 180
tgcaaggctc tagtaatcga ttaccaggcg ttgtaatcga ttaccacgca gtgtaatcga 240
ttactagcag acagggttga aaaatagctg gtgaaaagag ttttacattt gaattttcaa 300
catgtaatcg attaccatat gtgtgtgatc gattaccagc aacgaaactc ttgaaattca 360
gattccaaag tcatgacct tcaaattata actgtgtaat ccattacacc aacattgtaa 420
tcgattacta gtggagagtt ttca 444

<210> 4860

<211> 538

<212> DNA

<213> Glycine max

<400> 4860

taacggtatt gattctgtga tattcctctt gccccaaaa gataagaatt ctgntagcag 60
aagatagtat aaataagtat gtaaataaaa tcacaatcat aaatgagaat atatttcctt 120
gccttattcc ttctcccctt ccttctatgg aagccctggt cctcgaaacc agctaattag 180
atctcccccc ctaacagtca atgtgtttga ttgcgagaag gacatcaacg tgccagttac 240
cgttgttttc gtgggtgaaa atcgagcccg aggagccaga gtggatcggt tccttcatct 300
tgtcacagag tgtgacgaca gatttagaca aatccgtgat ggtggctgcg atcaaattcca 360
actttgacga gtgggtgtcc agtttcctgg tctgtgctgc catggtggtc gcgtgagact 420
gaagcgtgga cttaatggcc tcaagctcta ctttcaaagc gttaagtctc tgagaagcca 480
tccttgtaca cgtacacgat tgagggtgaaa ctcttaacga aagcaccaat gatacata 538

<210> 4861

<211> 522

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4861

[illegible]

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<223>      unsure at all n locations
<400>      4862
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<210>	4863
<211>	266
<212>	DNA
<213>	Glycine max

<400> 4863

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aacattctgg ttgaccact gccacaatc gtgcgatcgc aaacgattat actcaagtat 120
acacctttgc tgaggctgcc agtacgacgc tggactatct actgccagac gcacccatgt 180
gtatctatcc caatgacctt acctttcacc cgagtataca cctatgccat ttgctatcct 240
acgccaaggc tatggggtgc acatac 266

<210> 4864

<211> 927

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4864

gggaggggaag gagtagtgta ngttgtgtat aaaatttcaa taaaaatatg tgtgtaataa 60
aactaggagt atgtaatgat agaantacnc ccncncaca ccggggattt ttttgaaaat 120
gttgaacntg ctaannngtg tagaaaaaga acactcnagg gttgttttat atgggaaggt 180
gggnataatt nagatttttg aatttaaagg gagatntgga aaatggtgat tttttggggg 240
aaggttatat taatgataag gctggagagg gggttataga gctaaacaat atttatggag 300
gaatttggtg ggggttgaaa aaggtaatta tgggggtatt ggatttgtat aaaaaattt 360
tgggttaata aaagggtgtt aaaataaatt ggggtattat taatggggga ttggaaagat 420
aagggtgtgt aaagaggagg ttaaggagga aatggtgagt aaattaaaag aatggaaagg 480
gggttttaaa gattgttttg ggggtttcaa ataaagtatg gaggatgggg aaaatattaa 540
gatatgttat ttggttgaaa tgatgagaaa atgggcgttt agtaagaatt agagattttg 600
gtggaaggaa aaagggaata gtttaataaa tgggataaag ggggaactaa aaaggagtgt 660
ttaggggggt gaattattaa tatttggaag ggaaatagaa agggggaggg gtatagggaa 720
tgagaggaaa gaatttgac taaaagataa gggataggag tggaagaata aagaataatt 780
gaggtaggtg ttaatgggaa gaattgatag gaaatatggt aaagaggtgt aaaggattaa 840
gtattaaagg aaaaaatatg tgtgatggag tggtaataaa tagaggtgta atgttgaatt 900
gaangtgagt aagggttaata atgtgta 927

<210> 4865
 <211> 779
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4865

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 tatgtgctga cgtgacataa tattagcttc cttcttgga agcgctcggt gggctacact 120
 tagcttaaaa tggttacaac agcgtatact actctagacg aatgtgtgtc cttatatccc 180
 tcttggtcga ctaaactgtg accaatcgaa aaatagtgcg tgcacactta aaaacagaat 240
 ttactcccca tatccctgcg tgaagaataa gagaaaagat ttgcttcatt aaatttatag 300
 acgcggggta ctttccacca aggcctcagat gcataacgat ctttcccaca tgggtgattac 360
 accgcgagcc tatgatgttc ttgcaatgac agacgccttg ctcccatca taccctgccc 420
 ttatcacgtc tcagtcctta cgtccagcaa ttctttagaa gtcccacacc aggggtgttca 480
 gccattcggt acataaaaaa ccccttcggt tatgagattc ccaaaccctg ccaatctcta 540
 taaaagtggc cacgtttgct agctccaaag cgattttgcc gaaattcgcc ctgtgggggtg 600
 cctccaatg ctgggggact tttggtaaaa gtctcttccc ctttctcatg gcaccatgcg 660
 gggttttaga gatttagacc ccttctatgc ggcgtggcac ctccctaate tgtacgcctt 720
 gagggagaaa ctggcttccc ttctcccttc ccatacctgg cgctacacac ccagtgtct 779

<210> 4866
 <211> 527
 <212> DNA
 <213> Glycine max

<400> 4866

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 aacttctgga aaagaccaag tgggcctgat tgctatttgc acccctggt tactaaatac 120
 acccctgccc ttttttgctg attcttcttc cgtaacgtta tggaacttta cgaatttcgc 180
 gatgatactc gttttcttct tgtaatgtca cgaaacctta cggattacgc aatcctccct 240
 tctttggctt ccggaatgtt acggaacttt acagattgcg cattaacatt tccttttgac 300
 ttccggcatg tcacgaaact tcacggattg tgcaacaatg ctttcttttg acttccggca 360

tgtcacggaa cttcacgaat tgcctaata tgggtgccaa gtacctcgaa gtggtcaaac 420
gagggtcgca tcccaacaaa cggatgggtc ccagacgaaa ttagggatatg acaattgcat 480
acaatagtta tcacacagtc tgtatcatta agagcacgtt ctccccg 527

<210> 4867
<211> 528
<212> DNA
<213> Glycine max

<400> 4867

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atagagcaac caaagatttt tgtttcgaat tcgatataat caagtagttt agatcctatt 120
gttgtgccta ggctttaagg gttactttct ttgttgggca tactcttctt taatgttcca 180
gtgaccatta atatacaacc tcttattgat atgttccctt tttcaccttt gtccgtttca 240
tttctctgca tatttatatt cattgcaatt atatcatttg ccgcagatcc gataatgagt 300
cctgtgaaag cagcgatatt gaggacctgg atgttgactt tgagcagcca gtcaatcaaa 360
ccggggagga aaaagatgag gattggggat tctcttgga ttgaggaga atagtggaac 420
gggaagaaag agagataaag tcgcatcaag aggagacaga ggttggttaac ttgggcactt 480
gtgaagaaaa aaatgaggtc aagattggca cttgtgtgtc cgctaaca 527

<210> 4868
<211> 597
<212> DNA
<213> Glycine max

<400> 4868

tcattgatgat gaatcaagtt gattcaagta tttttgataa tgacaaagtt gatgacaaaa 60
atcccaaaga atgatttcaa gattaagtca acaagaagaa atcaagaaga ttcaagaatc 120
aagtgaagtt tgatttcaag attcaagaaa agatgaattc aagattcaag agaagaaatc 180
aagaagactt cacaagggaa gtattgaaaa gttttttcaa aaaacaaaca tagcacaatt 240
ttgttttttc aaaagagttt tctcaaaatt ttctaagtta ccagagtttt tactctctgg 300
taatcgatta ccagtttctt gtaatcgatt accaatggca aagtttgatt tcaaaaagct 360
ttcaactgaa ttgcaacgt tccaattgat ttcaaaatgg tgtaatcaat tacaagatat 420

tggtaatcga ttaccagtgt atctgaacat tgaaattcaa aatcaattgt gaagagtcac 480
atcctttcat aaaaagcttt gtgtaatcga ttgcatgggt ttgggtatcg attaccagtg 540
acaagtttga ataaaaatca aaggatataa ctctttccat gggttttagt ttttttt 597

<210> 4869
<211> 590
<212> DNA
<213> Glycine max

<400> 4869

tcataaggct atctatgggc taaggcaggc acttagagct tggcatgatg ctctcaaadc 60
atttataaca tcatatgggt tcacaaccag aagaagcaac ccttctctct ttatctacat 120
ctcgggtaac ataactgtct attttttggt gtatgttgat gacctccttc tcacaggaaa 180
taacactaca ttcatagaca cattcattga gttcttatct aatcggttgt cactcaaaaa 240
catgggggca ccatactact ttatgggtat tgaacttata cccatgaact caagcatggt 300
cctctcacia caciaatata tcaaggatgt acttgagaaa ttgagatgc aggatgtgaa 360
gtcgtcacc acaccacttg cctcgacgac tacactcatg ttgcatgatg gtacaccaac 420
caataatgct actcaatata aaagaattat tgggtgcatta caatacctta ccctaacaag 480
acctggcctc tcattctcca tcaacaaact ctcaatatta tgcacaaacc aaccttcctt 540
catcttcac atctcaggcg ccttctcgaa tacttgaagc cactattaac 590

<210> 4870
<211> 524
<212> DNA
<213> Glycine max

<400> 4870

tcacctcag atccctcttg atggactatg ctaaatttag acagccctcc taggtttaga 60
ctaacttaaa ctaagcttca tcctcaaata cctcttggtg gactagactt agcttaaaata 120
gcttactaaa gtttagacta atttagccta agctttgtcc tcagatccct cttgttagac 180
tagacttaga ccaaacaaca ttattgtaac agcatactta aaacaaaaat ttaatccgca 240
gatccctcct gtaagaataa gtttcaattc tgcttcattc aatttctaag gcaacaatac 300
atttcccaat gctaaagtca cctaactatg ctcaaaatg ggtgattaaa ccaagagcat 360

acgaaattta agcaatgaaa gaagcattga acacaagaaa cacaatcaat tagatattaa 420
 agtaattaca tcagctattc tttagaaatc cccaacaagg gtgttttagcc agccattaca 480
 gaagaaaccc taacaataat gagattacaa aacctagcta tctc 524

<210> 4871
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 4871

tctggtggga catcttgact tgctttccaa tctgacattc accacagatt ctgccttctt 60
 ctattttgaa actgggaatg cctctaacaa cacctttgtc aatgatattc ttcatgcctc 120
 ttaagtgcag atgtgcaaat ctttgatgcc atattttgac ttcattcttct ttggaggatg 180
 gacatgtgga ggagtaactg ggttcttgag gcgtccataa gtagcagttg tcctttgatc 240
 tgctgccctt cattagaacg tcattcttct catttgccac caaacattct gactatgtga 300
 agcttacatt gaatccttca tgacacaact gactgatgct gatcaaattt gcagtcagtc 360
 ccttcaccag cagaactttg tttagactag gaactacatc ctggactagc tctaccattg 420
 caggatcttt ccttta 436

<210> 4872
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 4872

tcgacgaata tggcagcagc gtccctcttg actctgatgt ctgctacacg aactctgaac 60
 actgagactc cttaccgca tgcccaatc tatgagcgcc tgaatgcgat tataacctaa 120
 aacatacatg ccacaatgag cttgggtata tatcaagata cttatgccgc cattgcctat 180
 gtctaaaccc atcccggcga cataaccgat ccacaacata gctcgagcga tcattatccg 240
 acgcatcaga cacacaaagt tgccacaga aggagtccac ggatgaaatg ctgaccacct 300
 caaaagactg aaaagcgggt gataaccatt ctattgagag acccacataa tgcattggagc 360
 atgggctgat caccaagata tgatactcgc ctgacactat 400

<210> 4873

<211> 514
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4873

tcattctaca cctgaaaaag aggatgagat agttgcacaa aaaaaaaagc ttcttaacaa 60
 aaattttcat gcaggtggac cttcttctag taattccgac ttacagcagc ctcgatatccc 120
 tcttccattc ccacctagag cgattccaaa caaaaaaaat ggaagaagtg gaaaaggaga 180
 tcttgagac cttcagaaaa gtagaagtga acatacctct gctagatgcc atcaagaaga 240
 ttccaagata tgccaagttt ctaaaggagt tatgcacca caaaaagaag ctcaagggca 300
 atgaaaggat tagcatgggt agaaatgtgt cagcattgat aggtaaatct gttcctcaca 360
 ttcttgagaa atataaggac ctangtactt tctgtatacc ttgcatcatt gggaacatta 420
 aatttgagaa tgccatgcta gatctangag catcagttag tgtcatgcct ctgtccattt 480
 tcaattcttt atctcttgga tccttgcaat ctac 514

<210> 4874
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 4874

tttcagcgtg atttgtcttt ttgtgagggg attttgtgca aggcctcactt tgagtgcaca 60
 tatcccaagg aagattaaac cactcatgct tcaatttata acactactct taaaaagttt 120
 tatatgattt accaatttta gtcaaagtcg aatattcatt tttggcgaaa ctctatgtta 180
 tcctttttta gtgaaatgtc agaagtgaag cgtaccacat tcggtagtga tgtacacatt 240
 tttccatggc taagtaaggg taattcatga atctaaattg aatgattaag ataagcctac 300
 acaataatcc aatggaccat gctctaagct tcttttgtcc atttaattaa actccacaag 360
 tccccaaagc tatgggtcat tctttcctct cttcatgagc tgagccagag gaaaagagac 420
 accattttcc acttttc 437

<210> 4875
 <211> 504
 <212> DNA
 <213> Glycine max

<400> 4875

tcatgatgaa tcaagattga ttcaaagagt tttgatgata acaaagatga tgacaaaaag 60
ctcaaaagtc aagaacactt catgataaca aagatgatga tctcaagaat caaagaatga 120
gttcaagatt gaatcaagta cacttcaggg atcaagagga aagttgaatt caagaatcaa 180
gaatcaagtt tcaagattca tgttccaaga atcaagatca agattcaaga ctcaagattc 240
aagaatcaag agaagactca atcaagataa gtattaaaaa acaatttcaa aaattgagta 300
gcacatgatt ttttctcaaa accttttatt agagagtgtt tactctccgg taatcgatta 360
ctagattatt gtaatcggtt accagtagca aaatgggttt caaaaaactt tcaaactgaa 420
tgtacaacgt tccaataaat ttcaaaatgc tgtaatcgat tacaagtatt tggtaatcga 480
ttaccagtgt gtctgaacgt tgaa 504

<210> 4876

<211> 405

<212> DNA

<213> Glycine max

<400> 4876

tttgttggga atctctgccg agtcttgatg taaatattat ttactatcta tttaatgttg 60
ctttgatgtg ttcattgctt ctatctgaat ttaattctaa catgtttttg gttcgatcac 120
ccatttgtgt gtaaagttag gatttttaac attgaaaaat attttgaatc cttataactg 180
gatataacat ggctagataa ctgtattatc aagacacaga gtgcaggagc tctactttta 240
ttatgttgtg accttaatgt tgttccgcta ggccaaattc gatgagggat ccgagaacga 300
aatttagtta gaattagccc attcatgcga gacatcagtg tttgggacaa ttgttctcac 360
cattgaacac cgaagccaca tttgatagag aaaaactttt tattg 405

<210> 4877

<211> 326

<212> DNA

<213> Glycine max

<400> 4877

aatacctcag cttcttgaca tatttgggaa attgatttta tatacaaaag gggcttgctt 60
cagaatatcc catttttttg gctttgacaa gtcttcatat cattgagctt atcggattaa 120

gatgtattcc aaaagaagaa caacgagcat tttactggga ccttaccctt gatttattat 180
aaggggaaaa gaggggttaa ataagaataa aaaggaaaaa gacccttcc taaatacagc 240
tttgggtcac caaaattgtc ctggcttcac attgacataa gcccggttaa caaggatatc 300
ctatttcatt ggggtgtgaa tccttc 326

<210> 4878
<211> 562
<212> DNA
<213> Glycine max

<400> 4878

tgaagctcaa gaaaagcttg aagaagtttt ggcttttaca tgcccaactt ccttgagtcg 60
catttgtatt ggttgttatc ttggttgggtg catcttagta catttgatat ttgtgttgca 120
tcatgcatca tcatggtttag tgtgaagaaa agtttctaag ttagaaaaat ttcttttagag 180
gcaaaaactg ttttaatcga ttacagagtt gtcgtaatca gttacaacaa gttgtttgaa 240
ccttaaagag ctaagtctcg tatcggttta attgattata gtagtatttt aatcgattac 300
actgttgttt gagataatga ttgatttatt caggagtctc tgctttgatc gattaccaag 360
tggatgaatt gattacttct ttcttgttca agtggtcaaa agtgaacaag aacactctaa 420
tcgattactt aggacatcta atcaattaca ttgttcttga gttgctttcc aaatgttgga 480
tgaacacttt aattgattac ttagataatc taatccatta ctttggttaa ataatcaact 540
atcttataga tttaattgat ta 562

<210> 4879
<211> 621
<212> DNA
<213> Glycine max

<400> 4879

aaatggattt taaacccccca aaattgtaat actaaatatt tattacctat acttaataga 60
aaatacttat aacactacaa aataaccatt aattggaaga agttgatata atttacacaa 120
gttttataca caaaagttag tcgtattcac cgactaacac cttttacata acaaaaaatat 180
gtttatgctt tataattttt ttataaaaaa attgcgatta attgcataaa taagtttttt 240
atctatagga attaaacaca atgccaaagg atttataata ctcacatcct gctcaacaaa 300

aatatgtttt tgatttataa ttttttacia aaaaaaaatt gttattaatt acataaatat 360
 gttgctttat ttacaattga tgatataagc tacccttttt aatccttctt gaattaatta 420
 tgatacacga cacaaactat ctttaataatg actcattact tttttaatag taatagaata 480
 aaatggtcga taattatttt tatttaaatt tgtattatta atgacactta gtacccttta 540
 tttataatca attaattgac gtacaaaatt aagtaactat gatacaatta gttgtattca 600
 ataaaaaaat tactcttttt a 621

<210> 4880
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 4880

gtaccactat ttctttaaca ttttggtttt ggttctcccc ttgaaagcat tctagtgtgc 60
 tctgcttgag cacttgaaag tgggcccttc tcaactccac cccaataata gggcatggt 120
 gaaagccttt gagatttgtt gccctttctt taaactttga accaatgtgc ctgtgtaccc 180
 gcactttttt catatgatat cgacgggtac attcagtggg gtctacttga acagcatggt 240
 caaaaagctt ttctagttat acacgaatgt atcacactac tttaaagatt gtcgcttaga 300
 ggacctacct actgaccttg atgttgatgg attaccacta atgttcaagc acatgaggag 360
 ctctgcttcc cattctatag gaaatgtaac cccaactggt ttcaggttat taatgaggat 420
 ctatagaacc 430

<210> 4881
 <211> 655
 <212> DNA
 <213> Glycine max

<400> 4881

tcacaagcaa gtttccatca agtggttaatc agagcacaag agcttcaagt aggtgctcct 60
 taaagctcca ttgttggttc ttcatttttc tccatgtatt tcttcacatg tattgtggta 120
 aatgttggtta acatgattct ttagaattta caccgattaa acttgctata taagctagat 180
 ttgattttct atgggttcaaa tttcttggtc ttattcttga accatgaatt atgttaagtt 240
 taggttcctt tgagttttgt attgctattt ttttggtggt gaaacctaaa ctataaaatt 300

attaaaaaaa cattaaagta gaagaaaacc tcaaaaatct agagtgcacat gttcacctat 360
 tgtaattttg tcatagaagt tatgtctaga catgaaactt gtcacataag tgtgctgaat 420
 tttatttttt tgtttctttg tctaactcat ttgttcataa gtgtatgaaa ttcttttagc 480
 ctcttagttg atttgagtca actcttgcac gttaattagt ccttaacatg ttcattgcaa 540
 attcttagag agtctttgat tgtgaacctt ttttttgaac ttttaggttt ccttatgatt 600
 gtgtttattg cgaatttgag tttttgtgat taaaattgct ggctgaaatt ttgat 655

<210> 4882
 <211> 347
 <212> DNA
 <213> Glycine max

<400> 4882

tctcgatata ttatgtcccc gaatcagaca tctgtgggaa gagttatgac cttttgtatt 60
 tctcgagagc taccgtagtt caatttcgag tatctcgata tactattttc ccaaactcgga 120
 tatecttgta ataacttatg accaatcgaa tttctcgaga gcttgtgttg ttaaatttca 180
 agcgtgtcga tatattatgt cctataatca gacatccgag tgaaataata tgactagtcg 240
 attttctcga gagcttgctt tgtccaattt cgagcgtctc gatataattat gttccaaatt 300
 cggacatgcg tgtgaaaaga tatgaccatt ctaatttatc gaggagc 347

<210> 4883
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 4883

ggccattaag cctatcatat gctgacaata gccgagaagc cccagaatct cttcgggggc 60
 cggaagtaag atgtcctgcc catgccttg gcgcttggct aataatcggg gaagttcttg 120
 actcccgtc aaggcaagag caaaccgatc catccacatg ggtgcctctt ggtgtaaaga 180
 gtgcaccacc ctctctctag cctctttttc cgcataact tgggcatact catccgcgaa 240
 tctatgctcg tggagcgggg ctagacccaa ctcttcttgg tacttggcga tgatagctag 300
 caagtaggtt tctgtctccc ataacacgct gaaacaagct tgttttggaa cctgaacaag 360
 caatcaattc ctctttttaga accatgccta tgtgctcgcg acaggccctt tt 412

<210> 4884
 <211> 581
 <212> DNA
 <213> Glycine max

<400> 4884

ttgagactaa gatgaagaat ttcacaaaaa ttatttaaac ctatgcacaa caaaccacaca 60
 acagtttttag aaaaatcgtc attgaccaat gagtctcaat gacgattttt caaaaattgt 120
 catagactag ctaatgttaa tgagtcctcaa cgacactttt tccaaaactg tcgtagtttc 180
 actaatctta acaatgattc ttccaaaaat tatcggttaac aacttcactt aattacaaaa 240
 atgtcaccac ttttttttaa agacaatttt tataaccatc atagatttgc cgtcctggaa 300
 tgcattgtttt ttaataatga attggaaatt aagcgataat atattcattg gtgaatatca 360
 ttaacaatga caaaagcaac tcactagcgg tcaataatac tagaggataa attatatgta 420
 tatgagatag acaaaataat agaatttaca tataatattc cgtaatattg tccttattta 480
 taggagcaaa cactatcttt acttgaagac tatgtgatat ctcaacattg atccagagtt 540
 ttatatgaac aatataccac ttataaggat gaataaaaag t 581

<210> 4885
 <211> 580
 <212> DNA
 <213> Glycine max

<400> 4885

cccattcttg tggatgaagct ccttcttcca tggcttattc cctagtggat ggcgcctcct 60
 ctcacctctt ttcctttgtc ttccgctaca tctccatggg gtaaaatcac cattgaagga 120
 cctcattgaa gctcaaagat ccagccacca tagaagcccc acaagcaagc ttccatcaag 180
 tggtaatcag agcacaagag cttcaagtag gtactcctta aacctccatt aattttttgc 240
 tttaccttct cttccattgt tgtttcttca tttttctcca tgtatctcct cacatgtctt 300
 gtgataaatg ttgttaacat gattcttttag attttccacc gattaaactt gctatagaag 360
 ctagatttta ttgtctatgg ttcaaatttc ttgttcttgt tcttgaacca tgaattgtgt 420
 tgagtttagg ttcctttgag ttttgtcttg gtattttttg tggctgaaac ctaaaccata 480
 aaattcttac aaaatattaa agtagaagaa aacctcaaaa atctagagtg acttggtcac 540

ctattgaagt ttgtcataga atcatgtcta gtcatgaaac

580

<210> 4886
<211> 564
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4886

atcgttcgtg tgtatgatat ctactccaca aggtttgaag taaaggagac cttcaatcct 60
atcacgcaac gtggcgga aaagtggaca gtaaacttga atgaccatta ttgtcaatgc 120
ggaaagtatt ctgtgcttca ctattcatgt tcacacatta ttgcagctta tggttacgtg 180
agcatgaact actaccaata tatagatgtt gtttacacga atgagcacat cttaaaagct 240
tactccgcac aatggtggcc tctcangaat gaagcgacaa ttctccttct aatgacgcat 300
ggacacttat cctgaccca actacaattc ttctgaaagg tcggcctaaa tcaacaatga 360
taaggaatga gatggattgg ctcaaaccgt ctgagcaccg gcaaaaatgt agtagatgtg 420
gagcagaagg gtccaacagc agatgatgtc caatgncatc taaccgtggg agttgntcat 480
ttaattgatt tatgtatgtt agacgagtga cttgtattgg gtttaatttc tattgaatgt 540
atttaagttg gggtcctcaa tgaa 564

<210> 4887
<211> 552
<212> DNA
<213> Glycine max

<400> 4887

tgtcagtaag tacactgaag cgcatagtgc aagggaagtg cgtacaacac catgcatctg 60
tgaggagtcc tcaagttcat tatttatgct gtgaactgca aataaagagt gcacacaatg 120
caaccatcag accatatatc catgaggcaa tcaggaaaat ccaaatatct aactgcaatc 180
atgtcatgct cctttgtaac tgaaactttt gcaatgggtg tccgttttta atagtacttg 240
gccatgggga atcagtttga aaattctata tcagacttca agcaaccgag catatgaagc 300
aaaagatata ctgacattca tcatgtggtt aacaaagaat gaactataaa atgaataagt 360
gatttgaact catggtgtac agcaagaaac aaacaaaaat aacaaggata ttttattttc 420

<211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4890

tgtataagcg agtgcaagaa tgcaggatag ttttgaaacc agtgtctgtg acacgacaaa 60
 agccaccaag gcatatgctc tccatgtttg cacacttgct agccattaga agtaatccca 120
 gatcattcac tcttcggaag taagtaattt ggaactcttg gcttcgaacc aatgaaagat 180
 gtttcaatct cccaagttga ttaatttggt gaagaccagc attggttagg tcaaagttaa 240
 ttcttggttc aatcagtggg gcatcttgaa gatccaaatg ggtcaaaagc atgagacctt 300
 tggatattgt accaaccata gcatcagtta tatagtctac attaagacac agtttctgaa 360
 tgcttggaag tatggatggg tgagcangat ttgagggcag ctgggatccc aaatttgggc 420
 taagcagttc agtcactgtc actgaagaaa tgtagccaat ctc 463

<210> 4891
 <211> 598
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4891

ttcataagtg aaatcaagtg caaccatctc ccttagagtc ctctcacgag gtggagggtg 60
 agccatgttc tcagtatgaa aattagtaat tgaatattca gaatcaccaa caacagaata 120
 ctcacaatgc tcaaaatgct cacaatgcat agaatgatca ggatgcacac tatgcctaac 180
 taatctatga aaggttctat ctatttcagg atcaaagggg tgtaaatacac ctggattgcc 240
 cctagtcatg caccatatgc agcaaataat gtgttctcaa acaagcacct aacaaggggg 300
 taaaactaca actatagtca aaagatatcc aagtaagttg aaattttgtg agcaacaccc 360
 taaaataatg aaaagatagc acaaaaaatt tcaaacaaaa attaaaagta aaactatgaa 420
 aactacctaa gcaaagttta gaaaaataag acaataatac ttaaaaaata aaaaaagaac 480
 ttagtaaatg actgattttt cgagtttggg agaccccaac cagctaaagc gggttgcccc 540
 aatatgggca acttnttttc tacctcaaat gcatatataa taatagtcac tctgatac 598

<210> 4892

<211> 543
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4892

taggctaaac tttcataagc tatttaagct aagtctagtc caacaagaat gatttgagga 60
 tgaagcttag ttttaagttag tctaaaccta ggagggctgt ctatattgag cctagtccaa 120
 caatagggat ctgaggaaga agcttggatt gattcattcc aattggggat cgagggttag 180
 taatttaggc tacaacatag aacacaaaag catgattgat tagagaaaca tccttatatg 240
 catcagctgg tctgctagaa agacccaaca cttctaccta ttgctatcaa ttttacttac 300
 ttacattttt actgttttta tcctagacat agtttaattc tactttaaac catcaattat 360
 caatgtttct ttcaacaatg ccttatttct gaatttaacc cagtcttaga ctagtttcat 420
 tgagttcgat actcagattc atccatttta atttttaaat acttgacgat ccggtgcgct 480
 ttctggaaaa tcgggttttc cttgaatata nttgtacgaa gaaaaagtgg aacaaaaagt 540
 aac 543

<210> 4893
 <211> 251
 <212> DNA
 <213> Glycine max
 <400> 4893

aaccgaattc aaaaatgcc aaatgatgaa cctaaggctg gcaactccta aattccccta 60
 atattgcttt tgaaatgggg ggggggaaaa atggacacta aactttaatg accattattg 120
 tcaatgcgga aagtattctg tgctttacta ttcattgtca cacattattg ccgcttatgg 180
 ttacgtgagc ctgaactact accaatatat aaatgttggt taccccaatg agcacatctt 240
 aaaagcttac t 251

<210> 4894
 <211> 439
 <212> DNA
 <213> Glycine max
 <400> 4894

tggaatgatc tgcaaaaagct aaacccttct tgctggacaa tgtctgcttt taaagtaaac 60

acaaagtgtg atttgcaagt aaataacatg tataaagcat tcaataatgt aataatgtag 120
 tacagacata agccaattat tacactattg gaggggaattc aattttacat aagttctaga 180
 attgtgaagt tgaggactac cttgatgaag tatgaggggt caatctgtcc taaaattaag 240
 caaatcatgg aaaagaataa aaaagcatgt gaaccatggc gggcacattg gtgtggtgat 300
 gataatctgt ttttgtttga agtgtcaaaa ggcattgaaa aatatgttgt caatcttaaa 360
 caataaacat gttcttgtac aaagtgggag tgtactggaa ttccatgcac tcattccata 420
 acatgcatgt ggatcaatg 439

<210> 4895
 <211> 476
 <212> DNA
 <213> Glycine max

<400> 4895
 tctttgagaa aactgccttg agaagctaga gcttatctac atacacctct ctaatagcta 60
 agcgcacctg cttgagatga gaagctagag cttagctaca caccacctat aatagctaag 120
 ctcaccccca ttccaaaaat acatgaaaat acagaaaaaa gtccctacta caaagacttc 180
 tcaaaatgcc ctgaaatata aggctaaaac cctatactac tagaatggcc agaatacaag 240
 gcccaaaaaga aggaagaacc aattctaata tctacaaaga agagaggacc caaccttggt 300
 ccatgggctc aaaaatctac cctgggggtc atgagaacct gaaggccttc tttagcagtt 360
 ctagcccaat cctcttgag tcttgatcc aataccctta gggggtagga ttgcatcact 420
 taccacctat ttaccaaaac taaccgcaga ctgtaagttc taccaacaag ttacat 476

<210> 4896
 <211> 238
 <212> DNA
 <213> Glycine max

<400> 4896
 ttcgagaaat tcaaatgggc aaaacttttc acactgtagt cctattcatg cgcataatat 60
 atcgaaacgc tcgaaattga acatcggaag ctctcgataa attcacatgg tcataactct 120
 taactcggat gtctgatctt ggccgataat atatcgagac gctcgacatt gaacatcaga 180
 agctctcatt ggtcatatac ggtcactcgg gggtgataaa aaagcgcat atatacct 238

<210> 4897
 <211> 511
 <212> DNA
 <213> Glycine max

<400> 4897

tgtaggatta tggggtaccc atcgcatgtg gtactatgtg gcggtcgggc gatggtgcac 60
 aacaaatttt ccacatccca taaatcgcg ataaaccac catccctgt tgcccacctc 120
 caactgagct cacgtactcc cacgtagccc atatcctcgt ttctctcaac atcgggtccc 180
 catcaatcct cccaagcttc cccaacatcc aagtaattca acattcaaac agcacaaact 240
 atcacagcca agaaaacagg gcaaaggcag aaaactctgc caaaaacacc aacaaaaatc 300
 acagcttttt ctcaactaaa gaccccagta acatttcctt tgttccaatt cgtaaccgt 360
 tggatcgact cgaaactttt actggaagtc tctagtacat aaaatctaca ttttgaccgt 420
 tgggatctac taacaaacat ccagaactca ttctgaatta ctctttccac aaccagcaaa 480
 tacatagaat ttttctgcac ttatgcaaaa t 511

<210> 4898
 <211> 505
 <212> DNA
 <213> Glycine max

<400> 4898

tgttatgtat ttcgtgctgg aaaggtctct acgagtgcct agatgaagtt tctgtggact 60
 catctgggta catatcccat attgaaagg gtatggagggt tctatttact ctattgccag 120
 tgggttcaatc ttctggaagt gtatcatctg cggatgtaag ttctgtagag gaatggctctg 180
 aagctgtaag atgcttacgg aaggctccgc agatttggct attggatttt ctttaaggat 240
 ggtatgcata cacattacac tacatgatat attttactgt atctcttctt catcatcatc 300
 aataacaaca acaacaacaa tcatctttta ctatacgtga tcatttctgt tgtttggtac 360
 cttcattatg ttgatttttt gttgtttact ttaagcta at cctccttggc gttgattcaa 420
 attgattgag gtcaagcttg tttattagat acaaatgtc tgtttaaacc ctgtgcgtga 480
 ccaaagcttg ccgttgtaac cacac 505

<210> 4899
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4899

tgccgcccag ctcgcccagg cgagctccgc tcgtcccggc gagctaaggt tgcttcctcc 60
 anaaacaata accttctgga agaattcttct tggaggccca agagggcctg gttgctatatt 120
 gcacccccat ttttgctaag tacaccccccc tgcctttttt tgggtgatact tttttcgtaa 180
 agctacgaaa acttacgaat ttcgcaacga tacttgaatt ctttccgtaa agttaccgaa 240
 acttggggat tacataatta tccccctttt gacttacagg atcgtaacaga acctcactaa 300
 ttgggcaacg acgcttccgt ttaatatata ccgtg 335

<210> 4900
 <211> 541
 <212> DNA
 <213> Glycine max

<400> 4900

tcttgaacgt gatcaatata ttcattggta cagaataaag gatgaagacg tggttcatga 60
 tagacaacac ctagaaaata aaccgggtaca gacttccact gctcgatttt gtttgggtga 120
 caccgactgg gatgacattc tctaccgggt ttgcatatgt ggaggggtgaa cacgttaata 180
 atttgggttg ggcttttaca cgcttctgag gccttttttt aaagcgtgat gccctccctg 240
 gagttatttc cactaacaga gaccaaacat tgatgaatgc agtgaagact gtattccctg 300
 tctgtacaaa tttgttgtgc agctttcaca taaacaagaa tgtgaaggcc aaacgtaaat 360
 cattaatttc gcaaaaaaat gcttgggatt atgtcatgga ttgttgggga tgtctgactg 420
 attgtccttc aaaacaacag tttgatgaat gcctgaagaa gtcaaaatgg cttgcgacc 480
 ttggccaatg ttggtgacta tggttaagaaa catggatata tcacacaaga aaattttttt 540
 t 541

<210> 4901
 <211> 621
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4901

tgccctcgaag aggtccagga aggacaaggc agccgaagga actaattccg ctccggagta 60
 tgatagtcac cgctttaaga gtgctgtaca ccaacagcgc ttcgaggcca tcaaaggatg 120
 gtcgtttctc cgggagcgac gcgtccagct cagggacgac gagtatactg atttccagga 180
 ggaaataggg cgccggcggt gggcatcact ggttactccc atggccaagt ttgatccaga 240
 aatagtcctt gagttttatg ccaatgcttg gccaacagag gagggcgtgc gtgacatgag 300
 atcctgggta aggggtcagt ggatcccggt tgatgccgac gctatcggcc aactcctang 360
 atatccgttg gtggttgaag agggccccga atgtgagtat ggccagaaga agaaccgctc 420
 tgaccggttc catgaggaag ccacgcccc acttctatgt ttaccgagac aagattttcc 480
 cggactgctg cagggaggcg agtgcaaatc attcccacca acataaccac cctgacccaa 540
 tattgatgac cttgcttctt agctaactcc tgcccaccaa tcataatttc caccttcccc 600
 tgccgaattg ccacattttt t 621

<210> 4902
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 4902

cttttgagct cattccttta cttgcacata agaaagcaag tgtccttaag tgcccaaact 60
 cttctaacat ctgctccaat tctcctgaa aaagagatgt atttcacacc gtcatttttc 120
 atgcaacccc caggttaatta ccattatgtc atgcaaccaa aattttcttt aaagagcacc 180
 atggatttaa aaaagggat ttttttcatt ttctgtata tgcttggtgct tgacattcaa 240
 agaaagttac gttttggttt ttcattgtta ttttgctgct gaagctattc tttttctcag 300
 aacttcaaat attatcattt cacgaaaaag aaa 333

<210> 4903
 <211> 503
 <212> DNA
 <213> Glycine max

<400> 4903

ttactatgca aggaataacc aaggaaaatt ctttcatttg acttagcatc aaactttcct 60

aagttttctt ttccattgtt taatacaaaa catttgcaac caaaaacatg aagatgcgag 120
atgtttgggt tcttgccatt gaacagttca tatggagttt tctttaaata gggctcttatt 180
aaatccctat tcatgatata gcatgcagta ttaacggctt cagtccaaaa atatttttga 240
agaagagtgt catttaataa ggttctaaca atttcttcca aagacctatt tctcctttca 300
acaactccat tttgttgagg agttctacgt gcagaaaagt tatgttcaat gccatgctta 360
ccacaaaata attcaaattc tttttttcaa attcaccccc ataactactc ctaatagata 420
taattttgag atttttattg tcttgaatga tttatgctag tttcctaaat acttgaaatg 480
catcattctt atgagtata aat 503

<210> 4904
<211> 169
<212> DNA
<213> Glycine max

<400> 4904
tatccgtgac gaaattgaat ttctttttct taattgtcta gggcttactc acatgctcca 60
tttgggggttc tgtgggggtcc tataaaccat gcgccagaac gataagtcta atgaacacca 120
atgccaaaaa taggccattg ttgtttatta atctcaaaca tttgtctat 169

<210> 4905
<211> 511
<212> DNA
<213> Glycine max

<400> 4905
tgagggaaaa cttgatgcct tggccaacct aataactcag cttggcatga atcataaatt 60
tgcacctgtt acaagagtct gtggtatatg ttcttctgca gatcaccata cagatctttg 120
tgcttctttg cagtgatctg gagtcaatga acaacctgaa gcttatgctg cctacattta 180
taatagacc cctcacagca aaaccaacat tagcgaacta attatgatct tccaagctac 240
agatacaatc cacgttggag aaatcattca aatatgagat gggcaagtgc ttcacaacaa 300
caacagtctg tcctccttt ccagaatgtt gctgggtccaa gcaaaccata tgttctctct 360
ccaatacagc agcaacaacg acaacagtca caacgaagac gacaagcaac tgagacttct 420
ccttaacctt ccttagaaga gttagtggag catatgacca tccagaatat gcaatttcag 480

catgagacaa gagccttcat tcagagtctg a

511

<210> 4906
<211> 570
<212> DNA
<213> Glycine max

<400> 4906

tcagctgcag caattaccct gccagaaata aggtttcccc cactattctg tgtattattc 60
tccaaagaaa ggtctttcca gaagccggat gaataatttc tagctaggat gcgccaaata 120
tgcacagctt ttgagctcat tcctttactt gcacataaga aggcaagtgt ccttaggtgc 180
ccagactctt ctaacatctg ctccaattcc tcctgaaaaa gagatgtatt tcacacggtc 240
atctttcagg caacccccag gtaattacca ttatgtcatg caaccaaagt tttctttaag 300
gagcagcatg gatttaaaaa aggggaatctt tttcattttc ctgtatatgc ttgtgcttga 360
cattcaaaga aggttagggt ttgggttttc atgtttatct tgctgctgag gctattctct 420
ttctgcagag cttcaatatg atcatatcag gaaaaggaaa aaagtatttc tcaaactctac 480
atagaaataa tgggtataat tcaattcacg acatatttat tttacagtat taattatgaa 540
aaatgtattg aaattacttc attcaataac 570

<210> 4907
<211> 546
<212> DNA
<213> Glycine max

<400> 4907

ttttcctctt gacttcatct ccttatttca tttttttaa acaaatttag ccaaaataac 60
cactacagac acattaccaa aaagctggca gcaaaatcaa tgacgaaaaa agaagctgag 120
acacagtgcc agttgctgct tatcaatccc aaattttttt caatttaact tataaaataa 180
ttattataaa aattaataga tttttttata tatgataatt tttttattaa ataacaataa 240
caatataatt ggtataaata ttattcattt attaaatttt agttggagag aataaaaagta 300
tcataagttt gtaagtcatt cacattcatt ataaaaatat atataaatat aaaaaataat 360
ataatttact aataaatcca aagatttctt tttaatccaa acccaaagac taaatgtata 420
taaatttata tgcaaactca ttcaaaagat tgatttttgt taaagttttt atcattaata 480

atcataaaaa aatttagcat aacttataaa taattttaca attaaaataa ttttaaaaaa 540
tatata 546

<210> 4908
<211> 358
<212> DNA
<213> Glycine max

<400> 4908

tgctgtccg atgcagtagt aatgatggcc cgagttatgt tggggaacgg ttacgaaccc 60
ggaatgggtt tagggaaaga caacggcggc atgactaacc tgataaatgc caaaggaaat 120
cgtgggaagt atggtttagg ctataaaccc actcaggcgg atataaagag aagcatcgtg 180
ggaagaaaga gcggtggtca aagctcgcgg ttgaggcaag aaagtgaagg aagcccggcc 240
tgccacataa gtagaagctt tataagcgcg ggtctgggag acgaagggtca aatgggtcgcg 300
atataccaaa atgatgttcc gagtacattg gatttggtac gaccatgccc tcttgatt 358

<210> 4909
<211> 343
<212> DNA
<213> Glycine max

<400> 4909

tgtcacagtt ctgccatcat tgggtggtgac ttgaaaagag gggattgtcc attgaggtat 60
gagtttttat gatttactgg tgtgtttata aattactgca ttttgttgtt tttatgattt 120
ttcacttctt actacttttg ggtttgatgt tgtgataact atcttaagga ttacattaca 180
gctaagagtg gatttgattg ctgatcaaac acaaaaggta tttgatagga tcctaacaaa 240
gttaggttgt actgtccac cagttcctag attttgcag caaaaaggag gtaagaagct 300
gcatttttta taccatgcac tttcatacct tacgtgtgta tgg 343

<210> 4910
<211> 792
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4910

[illegible]

<400> 4911

<210> 4912

<211> 435
 <212> DNA
 <213> Glycine max

<400> 4912

agcttttttcg gagccatctc ctgcaagaga taaatattca cgaagtcagt ttacccagaa 60
 ttttcatctt ataaccaaga ccaaacaaca ggggggtacc actttttctg aaatgcaa 120
 gtcaatgtga atttgggcaa acccccatatc attcaaagca ttagctacct aaatcacaca 180
 cacacattta taaagtattt tggctacctt aagatcacat acatgcattc cacagtatgt 240
 cggctacttt gaaagattgc atatcttgaa aggcaactaa actaaattaa caacgtattt 300
 ttgtcaccgc tgtaataca ataaaaaagt atattggctt gctaccacgc aatatataca 360
 cctatgatgc cttcttgcta cctaacaagc aattcatatt taatcgaaag aaatattttg 420
 ctaccacac gattg 435

<210> 4913
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 4913

tcatgatgaa tcaacaatga ttcaaaagtg ttttgatgat atcaatgatg acaacaaaaa 60
 gatgatgaca aaggatgatga acaaaaagca caaagatca gagaacaact caaatgaatc 120
 aaagaacatc tcaagtgaat caagaacaag tcaagagttc aagaatcaag gagaattcaa 180
 gactcaagaa gaaagcctag aatcaagaat caagaatcaa gaatcaagaa tcaagactca 240
 agatctcaag aatcaagatc aagaatcaag aatgaaggaa agactcaatc aagataagta 300
 ttaaaaaagt tttttccaaa ctttgaatag cacgtgagtt tttgaccaa 350

<210> 4914
 <211> 364
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4914

agcttcggca ctgttaaggg taaagactct tcccggtggcc ttcagatgtc cagtntggtc 60
 attcaggccc ctaccattct gtccttctt gggatatgga caatctctct gaatattggt 120

ggatcaagtg gcctcagaat aattaagaag ggggggttga attaattatt cctaaacctt 180
 tactaattaa aaatttactc ttctaaggat ttactatgt tgttaaataa atgaagaata 240
 gaaaagaaac ttaacaaaaa gtaaaagcgg aaattaaagt gcacagcgga aattaaaaga 300
 gtagagaaga aggagacaaa cacacaagag ttttatacta gttcagcaac aacctgtgcc 360
 taca 364

<210> 4915
 <211> 227
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4915

ntntggagta gaaacatggg accaaatcat tntatttcag atagtcgtat ctagtcaagg 60
 tctgagagac catacaagtt ttctagcgat ttctaattat atgggccatt aagtctatca 120
 tatgctgaca atagccgaga agcccatgaa tttcttcggg ggcggagtaa gtgtccgcca 180
 ttgccttggc cttggctaac aatcggggaa gttcttgact cccgttc 227

<210> 4916
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 4916

agcttattac tgcttcttgg atggatactc tggatacaat tagattactg tggaccccaa 60
 ggatcatgag aagacgacct tcacatgccc ttttgggtgc tttgcctaca gacagatggt 120
 gtttggatta tgtaatgcac ctgccatatt tcagatgtgc atgttggcca ttattgcaga 180
 tatggtggag ttggagcata aagcctaata ggcctcaaa ctgcttaact ttgattaagc 240
 tacatctaga gagaagatga agttacagtt gctagagtta gaagaaataa ggatgaacgc 300
 atatgaatca tccaagattt ataagcaaaa gatgaaggcg tatcatgaca agaagttact 360
 aagacaaaac ttccagccag gacaacaagt 390

<210> 4917
 <211> 378
 <212> DNA

aaaa

244

<210> 4920
<211> 347
<212> DNA
<213> Glycine max

<400> 4920

tcgatcattt tccaatccac atcattcact aattattcag ggattgaata aaataaacia 60
tggtccgtgt cggtcgtat atggccccga ctgatattct tcaaccgaca ttgcgcaatt 120
tcttttaaaa aagctggccg ataatgtatt ttaccgtag aggaagattt ttgtttttgg 180
attccctaaa aaatttacga tgtaggtcgg ctaggttttt ccctgcgagc tcaacccagg 240
ttgtgtttcg gacgacactg gcatgtttct atttattagg ccaagaaaac gttagcccac 300
tccggcacca aaaaacatca tcaacggaaa ttgataaaaa aaaatga 347

<210> 4921
<211> 216
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4921

tctatataag ctgaaccatt ntatcaataa acacaagttg agttntattc agaaaattag 60
agtttatctc ttttatctta gtgagagtga ttctcctaaa ttcttgagtg attcaagaac 120
accctggctg tatcaaagga ctttcacaac ctttgtgtgt tgccctcggt ggaaagagtg 180
attctttcct tcctttcatc ttcacccttg gtcttt 216

<210> 4922
<211> 406
<212> DNA
<213> Glycine max

<400> 4922

agcttgtaga agcaaaaggc cagctatggt gttcaagggg ggatttgaaa aggcctatga 60
ctcaatctca tgggtttttt tggattatat gctgcaaaga atgggttttt gccacaaatg 120
gagacactgg atgtctgcct gtctcaagtc agcaagcatt tctattctta tcaatggcag 180

tcctacaaag ggaatttgct cctactatag gtttgaggca aggggatcct ttagccccct 240
 tactctttaa tatagttgga gaaggcatca caggattgat gagggaagca gttcataaga 300
 acttatatag aagctatatg gctggaaaga aaaaggaacc cattaatatt ttgcagtatg 360
 cggatgacac aatttttgtg ggtgaggctg agtgggagaa tggttat 406

<210> 4923
 <211> 313
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4923

tataagaaca aaattgcctc aatcatttcc aaatatgcat gtgaattang aagcatcaac 60
 aagaatcaag ccaaggctat tctgcaagca atcaatgggg caaaacacac caaatgatta 120
 tgatgatgga tggctcanat tctcaciaag gtaaaactcat cactttcaaa ttgagcttta 180
 aaaactatca tgacatgtag agggaaaatca atgatttcaa atcacaaaat gtcaagaaac 240
 ttttatntc aaaacaatta cccatttctt gaacatatcc tatnnattaa agaaaacatg 300
 caaatcgaca tgc 313

<210> 4924
 <211> 298
 <212> DNA
 <213> Glycine max

<400> 4924

agcttacaaa tatgttttag atccaagcac atatgtaaaa tcagatcaaa tctagataaa 60
 gatgagataa gatctagatg aaataatatt tagatgatat caaatctaaa taatatctag 120
 ataagataag atctaatttt atagaataaa ttagtctgcc ctcttcaagt ccaagcccaa 180
 ttctagattc aagcccaatg cttgattcaa gcccaatgct tcattaattc ctgaaattag 240
 ataaaaacat caaattagct gaatgggtccc aaataataaa actgcctaataaaaattga 298

<210> 4925
 <211> 221
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 4925

tgtgagtatc tacatgagat gaagcataga gggttgcaac ctaatgttgt aacttatagt 60
acctaattga ttcattttgc aaggcangca tgacactgga agcaaataaa tttttttggt 120
gacatgatac atgttgggtct tcaacccaat gaatntacgt atacatctct aattgatgca 180
aatcgtaaaa tacgtgatct caatgaagca ttttatctgg a 221

<210> 4926

<211> 347

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4926

agctnttagg ctgattggct gctttgttca taggagattt ctagcctttn ttcatatcta 60
tagtgtgtaa taaaaaggga ccaatagttg tacagtttga catataagaa ataccaagaa 120
aaattatatt ctgattacat gaaaaccctg aatatatcaa aatcatatat tacatattat 180
atataacaac catcaagacc aaaccttgct ctattaggtg gtgctagtta gctacataaa 240
tcaaataat tcaagagtaag gtccctttta attttatatg caacaataag aaacataaga 300
aagaaatatg tntattgtat catgtcaaag ttaagcctag tactaaa 347

<210> 4927

<211> 408

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4927

tgtaggatta tggggtaccc atcacatgtg gtactaggtg gcggtcgggc gatggtgcac 60
aacaagtttt ccacatccac aaatcgcaca taaaccaca atcccctgtt gccacctcc 120
aactgagctc acgtactccc acgtagccca tatectegtt tctctcaaca ccgggtcccc 180
atcaatcctc ccaagcttcc ccaacatcca agtaattcaa cattcaaaca gcacanacta 240
tcacagccaa gaaaacaggg caaaggcaga aaactctgcc caaaacacca accaaaatca 300
cagcttttcc cacttaaaga cccagtaac atttcccttc gtccaattcg ttaaccgttg 360
gatcgactca naaatntact ggaagtctct agtacataag cctacatt 408

<210> 4928
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4928

atatatctaa tcgaccattg gcactactgt tcctgtgaga gatttggatg gacatgcgtg 60
 tgtgatacgc ttctatatgt gaatcatctg atggcctcta atcaagatga aatgagtgc 120
 cttactgctt ctttttgatt cngcctcacg cgccatttta agactgtgat gctgattttt 180
 caaccgtata atgacccgtg catgagaaga aatccctcac ccttgtagac caagaggagg 240
 atgaatctaa tatattgttt tacgtgctga gaaaaaagct tatatgttcc catgtctgag 300
 tgtctaagat cccaagtaaa gttctaata accataatgt gccttgctgg tgtatatgac 360
 cgcatagctt ttttttgccc ttaacattat tattatcctc catct 405

<210> 4929
 <211> 248
 <212> DNA
 <213> Glycine max

<400> 4929

tctccatctc cttactgtta tctgaaaaag atcttaagca cattagcatc caaaatagaa 60
 gcattctact atgaccaaata ctaacacata gctcaatttc aacctgctgg gattccagtg 120
 tcacaaatct gtaaccacaa aaaatgaagg accttgtagt actcttgaag aacaacacga 180
 tgctcatctg agcattgttt taaccattca taagtgaata ttggattctt catatattca 240
 agcccact 248

<210> 4930
 <211> 102
 <212> DNA
 <213> Glycine max

<400> 4930

agctatgtat ctattacact agtcttgaat tcttattacc caagagatat tcagaagata 60
 actttcaaga gtcacatcta ttccataggt ttatgaatgg cc 102

<210> 4931
 <211> 199
 <212> DNA
 <213> Glycine max

<400> 4931

gagaatgttt ctctcttctt gattttcatc tttttttaca gttatactct atcttttata 60
 tccatttttt tcattctatt atctcctttc atgctctttc ttttcatcaa tattgctttt 120
 ctctgctatt ctctctcgat ctcttttcac tctcaattta atttgatect tacaaacctt 180
 acttggaac aaatttgtg 199

<210> 4932
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4932

agctnggaat gaggtttgct aaccatgagt agataatggc tggagagcca gcagctggaa 60
 acttggaaca aatggatgaa gatgttgaag ctgaagctcc ataagagcat gcacatcaat 120
 gagtcctttt gagtcactca tgattcagaa gatggacgct atgcttcacc tccgtcaata 180
 gcacttagtt gaagttcaca attcgttga gaacataact acccggtggg aaaacataga 240
 tactaggctg acccttagca acctcctaaa ccccgatgag gatgaagctt agttatgttt 300
 ttaggtgctt agttcagttg cttatatattt ttgaatgttt gtgtgtcttt gattaagaag 360
 ttaaggtttc taatgatagt ttaatgtttc tatgtattgg tctttaatga atgaaatgct 420
 atggtatttt cctttttcac attatat 447

<210> 4933
 <211> 281
 <212> DNA
 <213> Glycine max

<400> 4933

gtggtaatca gagcacaaga gtttcaagta ggtgctcctt aaacctccat taattttttt 60
 gctttacctt gtcttcatt gttgtttctt catttttctc catgtatctc ctcacatgct 120
 ttgttctaaa tgttgtaaac atgattcttt aaaatttcca ccgattaaac ttgctataga 180

agttagatTTT gattttctat ggttcaaatt tcttggctctt gttcttgaac catgaattct 240
gttgaagtta aggtcctttg aacttttgcc tggatatttt t 281

<210> 4934
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4934

agcttgccctc agagaggtcc aagaaggata atgcggccga agggactagt tccgctcctg 60
agtatgacag tcaccgcttt aggagcgctg tacaccagta gcgcttcgag gccatcaagg 120
gatggtcgtt tcgacgggag cgacgcgtcc aactcaggga cgacgagtat actgatttcc 180
aggaggagat agggcaccgg cgggtggacat cactgggttac ccccatggcc aagttcgatc 240
cacaaatagt ccttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300
tgaggctctg ngtaaggggt cagtggatcc cgtttgatgc cgacgctatc ggccagctcc 360
tangatatcc gttggtgttg ga 382

<210> 4935
<211> 260
<212> DNA
<213> Glycine max

<400> 4935
tcaacctaga ggagacgaac cattccaagt gttggagaag atcaacgaca atgcctacaa 60
gattgacttg cctagtgagt ataatgtaag tgccactttc aatgtgtctg atctatctct 120
ttttgatgca gatggaagag ccttggattt gaagacaaat ctttttcaag gagggagtga 180
tgaggacata accaagggca aggaccatga agcacttgaa ggtcccatga ccagaggcag 240
acttaaacaa gcccaacaca 260

<210> 4936
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4936

agcttataag aacaaaattg cctaaatcat ttccaaatat gcatgtgaat taggaagcat 60
gaacaagaat taagccaagg ctattgtgca agcaatcaat ggggcaaaac acaccaaaag 120
attatgatga tggatggctc aaattctcac aaaggtaagc ttatcacttt caaattgagc 180
tttcaaaaact atcatgacat gtagaggaaa aacaaggatt tcaaatacaca caatgtcaag 240
agacttttat tttcagaaca attaccaaag cttgatttgt gagttgattt tagccttggt 300
ttcactttga ttattagtca attaattcaa ggaaactttc aaagaaaaac gtctgattga 360
tttttcttga ttattntatt atttttttca agatatnttg attattntat tattattttg 420
cttttttttg tttaaa 436

<210> 4937
<211> 309
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4937

ntannaattg aattaaaca ttcagaaact gctggtaatc aattaccata tatgtgtaat 60
cgattacaca gtgcaaattt tgaattcaaa ttttaatagc tgttgtaaatt cagttttggc 120
cactggtaat cgattacatc ctctggtaat cgaataccag agagtaaatt tgttgaaaaa 180
aactttttta cttaaatttc ttggccaaac cttttgctac ttcaattgga attcccttcc 240
tatttaatat accctttcta agactctaaa gactgtcttg atcatccatc ttgaatatat 300
ttaatttct 309

<210> 4938
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4938

agctnntaac aaattttctt tgtgggaaat tatccatggt tggttgacat ggtcaacaaa 60
cattgggttat gctgaacaaa caatttcaaa cttcttaagg caatcatcga aatgatcctt 120
aaaaggacaa tcaaccaaac tccccagac atccatcaca taatcccatg catttttttg 180
accaactaga gatttacatt ntaccttgac attcttgtca atgtgaaacc tacacaacaa 240

gttggtacac ccaggggaata cagttttcac tacattcatc aacggttaggt ctctatcggt 300
aacaataact ccaaggagga catcacatct tagaaaaaga cattgaaacc gttctagaga 360
tcanaccata ttattt 376

<210> 4939
<211> 347
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4939

ntgtggcact ctgttacaca cgtcagccct ccatgtcagt cctggcacag gagcacatat 60
atcatgccct tagcaattgg actctcaact gacagggtat ctctaaccat ttatattatt 120
tgaatatatt gcaatctcct tatcacgtgg caggatttca attatctcta agctacacat 180
tatctataag ccataattat ttacttgtca ttacctacaa gtcggtaatt atcttgtaag 240
gttggtacaa caccgtaata gccctacaa acaatatacct gcaacttcta ctctactcta 300
taagtatcag gtttcatctc actcttttca tactcattca ttactct 347

<210> 4940
<211> 319
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4940

tcttctgac actactaaca tcatcatttt aacgtctatt ntatcataac ctatgttaaa 60
ataagtgtgg tgatatattt gtaaataaat tgagttcggt aatgtcattt tttcaaagaa 120
ccaatgtttt gtgtcgatgt taacatcggt tttttttttt ataaaaatca atgttgtttg 180
atgctcgta acattagctt ttatagaaat cgatgttggtg ttttttcta aattaaataa 240
accaatcta tttcactttc ttgttttgc gtcactctc accactctcc ctcttatcta 300
aaacctctc attgctcta 319

<210> 4941
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4941

ntgatgtcta tataaagctc anagatgttt gtcataagtg tgcgaatca ctagagaatc 60
atctgagtca aaatgaacaa agtgttgtaa tgctgtcagt ttagttggac gacaaaaact 120
tgagtgaatt gagtgaatct tagctctgct aagcagcaag tttccattgt atccgagctt 180
attgtgtaaa cattccttga gtgattagaa tacatatctt atcaaacatc tttttttgtg 240
aaagccagga gtgacttcat gacaaaaaat acttgggtct taatctcatg gggagattaa 300
gggtagagtc agaaatgacc tagagattac ttgtagccag aagtgcata gagaataactt 360
ggttgtaatc aaagttttga ttagtggaac cttcaagtt ttg 403

<210> 4942
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4942

agcttaaggg ttggatatc tagtgtaact tatctctcta ttatgttaaa ataagagcgc 60
acgcttattc taatgtaata acgagatgtt cggattaagc aaattctgga agttacatgg 120
aagttactaa agcttccatc aacggtaatt tttaaaaaaa aataacttcc atcatccgcc 180
aaaaaccacc ttttctttga tcataaataa ttattctggt tcacaaagca taacgggtga 240
caaaacatac aagacaaaaa caaaactctt gaattataat cttctgattn tatccgattg 300
aacaattttg attgaacccc gaaatttgat tcaatctgaa agtgggtatac acgacttcag 360
aattatccag ta 372

<210> 4943
<211> 525
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4943

cgagtcacgc cnnnatgag acgcctgtca tttagatgac gctagcatat acgtgacact 60
atagactaca tcgagactgt gaccttgagc cagtcgttga gaagatatat atatcgagac 120
aagcgggtact gagatttact tgcaactgtg agaatcatgt ttgagccacc aatcatgagt 180

tatgaactca tctttgaatg atgcatattg cagactcttt tatacatcga ctctcacaca 240
tctttgaagg aatgtttcaa gatctatcca cagacattgc tgatgcatca ctctatagct 300
ctctgaacag atgctatcaa caccttcttt tacacagaat gtactctagg cacggacttg 360
tgttatctag tcttttcaat cactgatgct ctggcgaaaa acgacagact aaccggctga 420
agctttttga cactcttctt ctttgccaaa ggaccacaaa ctgtggaagc caagctcata 480
atgaatcacc atggatcaaa cgtgtgttga tgataaccaa gaagg 525

<210> 4944
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4944

agcttagttc gaggtactta cccattgaag attgaagaac gatgaagaac gaatgaagaa 60
cgtcgaaaaa ccgtcgaaac ctttgcgaaa ttccttacgg gaacgtttcg gaagcgcttc 120
ggcttagatt ttcttcacgg aaaccatttt tccaagccaa ttcgaaagag agagaagtgc 180
ctaaggggct gaaccctttt ttacttcact tctcccccta tttatagaaa attggggggag 240
aagcttgac ccagctcgcc caggcgagca tgggtgcttc ctccagaagc aacagccttc 300
tggaggaatc ttctggaggg cccaagtggg cctggtttct atttgcaccc ccatttttac 360
taagtacacc ccctggcct tttttggtga ttcttnttct gtaaagt 407

<210> 4945
<211> 362
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4945

tctcaggagg tgagcttagt tnttagatgg gtgtgtgtag ctaaactcta gcttctcaag 60
gaagttttct caaagaagct tctcaaggaa gttttcttaa gaaagcttct caaggaagtt 120
ttcttaagaa agcttttcaa ggaagctacc tagtctataa atagaagcat gtgtaacact 180
tattgtaact ntgatgaatg agagtcttgt gagacacaa ctaaagttca acttctctcc 240
cttnttcttc cttcaatttc gtgtcccccc ctctctcttt ctctcccttt ttcttttctt 300

tcattgaagc catctctcca acctctttat cagtctcatc ttgtggtgaa gctccttctt 360
ca 362

<210> 4946
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4946

agcttcgtat canatgacac agaaagcgtg tttctgcttt gcgcatggga gatgttcggg 60
tgacaccttg catgcacgaa ttttttcaact aaaatcgata attttacaaa actatgtatc 120
agtatcgata atttaaaaaa ttattttacgt gtaaggggtga tttttgccac tccaaaatct 180
tagttgataa aaaatactct cattataggt aaataatttt caaaataccc atattggtaa 240
ataatttaca aaattatcca ttttagtaaa aaaaaaatag tgggtgcatgc acctttgaaa 300
tgcaatagaa attatgagag taaagattta ttagaaagcg tgttttatca nactttaatg 360
actaacacag acaatataac tctcttcaaa cttat 395

<210> 4947
<211> 295
<212> DNA
<213> Glycine max

<400> 4947

tttgagctag agtgtgatgc ctctggtgta ggtgtgggag ttgtgttatg gtaggggtgga 60
caccctatta cttaatttag tgagaaactt catggtgccg ctcttaacta cccacatat 120
gataaggagc tttatgcctt agttagagcc ctccaaactt gggaacatta ccttgtttcc 180
aaggagtttg ttattcatag tgatcatgaa tcaacttaagt acattagagg acaatgcaag 240
ttaacaaga ggcatgcaaa atgggtagag ttccaagagc aatttctata tgta 295

<210> 4948
<211> 434
<212> DNA
<213> Glycine max

<400> 4948

agcttaaggt cactttacaa tacacgggtcc ttcaagcaag taagatgttt catcttctat 60
 tcatttggtg gactttatac ttcaaggtat tatcttttta tttttttggg atagtcatta 120
 ttattatgtg gtaagagttt atacaagtct agtttactta ataaggggtc aattgatgga 180
 ttacccaaac tagtaagcca cctactttgt aaaccattac cattaataaa gttatgtgtc 240
 ttcttaaaag tttcacataa tttgttcatt ttaattttga ctatttatga gaagggtgtt 300
 ttaccattta taatgagaca atagtcaata tttatttate acatttctat ataaaaataa 360
 atctttcact aaatacattt cttcttttctc tttatgtgtg tatgtgtatg tgtaattaac 420
 atacatttag tgat 434

<210> 4949
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4949

taacattggt ctgtgacctg agttccaaat aagatttctca ttcttaacag gattatttta 60
 tgctgtgaat tactcccagg acttggggtgt caatgatagt agcatgtata aacactcgga 120
 tgaaaagcta aaatcactta gaatgtgttt gngttgcatt ttcattttct gtttttattt 180
 tcacaagatt agaattataa aaatatgttt gggttgactt cttgttttct gctttcaaga 240
 aataaaaaca ctgaaatgcy ttttcaaaaa gaaatgtatn tttatatttg cttaaaatta 300
 cattccttgt caccgcgttt tcatgttatc caaaatgagg tgtctaagtt caactgaaac 360
 actgaaaacg agatttatta tttcagtttt tggttcggtga gaaaaatttt actgaaatgt 420
 ttcaaaatca 430

<210> 4950
 <211> 300
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4950

agcttatggc ttctcagtaa aacactacgg cgcttgcatt ctcataagtt ttaggcagat 60
 atgatatttt aaaaaaagtt tatgagatcc attcattgca aaaaggatgt attatgcatg 120

gtgatatcat gattttggat agtaattaat tataactcat tatttagagt aaattaatgc 180
gacctcctat tttttaatat ccttaactaa aacaactgta tcaattaaag atataagtgg 240
ttaattaagg aatgaggang gcnataata aagagagaca gagagaaaaa ttgttgatga 300

<210> 4951
<211> 244
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4951

tgagctgtaa ggtgatggcc tagaaagagt ttagtctcta ataaaccttt gaggttgagg 60
taaggcatan gatangtcca tcatatctta tgcttgaatg caatttggct canataatgg 120
ggcattatat tatcaagcat ggaactccat gtcagtttgt caaagagtat tcaatatcat 180
gttgagtaac catcaccaaa aagttaaaca ctatcaagta catgaacata acgatcagtc 240
gcaa 244

<210> 4952
<211> 287
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4952

agctngtcca atgaggtgac aatgaaaata cctagtgtta ctacctgata tacagttttt 60
gctgctcggt ttattgtcaa ttccaactgc atcgatgcat ctttaacaag caggtaccac 120
gaaccagagc agcaaccaag ttgaccttct ttaaactcta aaataccata aaaaacaagg 180
tatgtaaaat gtgcaactag tcagatatta atcagatcct tcttaaacca taaattaaga 240
cattttccac agcaagccca ggaaggcatt tcaatggcta aaaaatt 287

<210> 4953
<211> 370
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4953

actctagtct cgctctcaac aactgcaaaa tcaagtggaa tattgttcct actacaatct 60

tgtccgatgg gagttaacaa agtaccatgg tatttgccag ttaagaatgt cccatctaata 120
 tgcacaagtg gcttgcaata tttgaagcct tcaatgcatg gattaaagtt gtgtgttcat 180
 gggttgggga ttaaggcttg aggttttagga tttagagttt actgatactt gaggtaaagt 240
 tgtgtgttag gatttacgat acaatgagaa agatatttgg actattaatg agatatttaa 300
 tcaaatggac ttattagata taaataggga aagaaggata tganatattc tctactatat 360
 tatgaccttt 370

<210> 4954
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4954

agcttcaatc tttgcttgga gtttaattcg agatcgattg ccgactaagt ctaatctgcg 60
 gagaaggcaa atagatataa gtgacagcct ctgtcctttc tgcagtatta aggaggaaac 120
 tgcattctcat ctcttttttg actgcagcaa aacacagcat ctttggtggg aatccctatc 180
 atggatagga acttcggggg cataccctat aaatcctacg caccactttt tgcagcacia 240
 caatgggatg aatggtggga agaaatacaa tagatggaag tgttgatggg ttgctctana 300
 ttggtccatt tggcagcata ngaataaggt tattattatc aatgctccat tcaacggcag 360
 tatgttgctg gaagatgcac tatattnggc atggacatg 399

<210> 4955
 <211> 298
 <212> DNA
 <213> Glycine max

<400> 4955

gaaagttagt tctaccagtg ggacactact cttaaaacaa aatggcata caacctcctc 60
 ccataaatac aaacatcaat gtaaatttag agcaagctta tgcgcatatt tccttacgaa 120
 cggttacttg cacaagacat cctattaact aagaaaaatg caccatata caatcaaggt 180
 agcttcatta cctagattat ttacatgtac ttccaaggtg tatttggtat tacatcacac 240
 acgactcctt ggctgaattt acatacatgc atactcaaag cattttgggg tacccaaa 298

<210> 4956
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4956

agcttatgat tccatttcct gggaattctt gtattggatg ctttaagtcca ttggctttcc 60
 agcccagttc tgtacttgga tcatggaatg tgtttcttcc acttccttta gtgtggcagt 120
 caatggatcc atttatggtc acttcaaagg gcagcggggt cttagacaag gggatcttct 180
 ctcccccttat ctgtttgtgc tctgtttgga gtacttttcc agagatatga gcagcctcaa 240
 ggaagatgcc aattntaaat ttcattccaa ctgtgcaagt attcagctat ctcatattggc 300
 ttttgcagat gatattatgc ttttatctag aggagatatc ctttctgtgt caactaatgt 360
 tgccaagctt caacacttct 380

<210> 4957
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 4957

tgtacacatg ctaaggtttc tccttatctt caaatctatg tggctgcttc acataaacct 60
 cttcatttat gaatccattt ataaatgcac tcttgacatc catctgatat agtttaaatgt 120
 ctttgtgtgc tgcataaggct aagagtattc tgacagcttc aagtcttgct actggtgcaa 180
 aggtttcatc aaagtcaatc ccttctttgt tgattgtacc catgagcaac tagtctagcc 240
 ttattcctaa ccacttctcc tttttcattg agcttggttt tgaataccta cttagtcca 300
 atcaccgact aaatcttatg agggggaaca tgattttaga cttgatcta acgaactggc 360
 tggttcttct tcat 374

<210> 4958
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4958

agctntgatc taccaccacc gccgccacca tcatcatagt tntctattat ttaatattac 60
tagtactttg atttccagcc atgtatttgg ctatattatt atgatatttg aacaatttac 120
tatttcttta tttgcatggg atgtttgaac aaaaattaat tatgttattt gaactatgtg 180
gttttatata tttgatctat tcatggttct tgcttcatga tttggtttat acttttccat 240
gaatgttggtg tggatgctta gttgtatttg aatgcttcaa acttggtaca cactttggct 300
ttttgttgat gccaaagggg gagagaaata gggattaaat caataactca catgagtaat 360
caacttaatt ttaagagaag cataaatttc aaaacaaagg gggagaat 408

<210> 4959
<211> 357
<212> DNA
<213> Glycine max

<400> 4959

tgtagaatgg ctagacatga tacatgtcgg ggcttggttt ggtgtaaggg taaaatggat 60
gccccacatt atttccatga cacaaatgca gaaatgatga tttggagact atatgcagaa 120
ctggatcatgc atgcatctat gccgacactc aaatgtcaaa tctttatggg catgtgatgc 180
tagggctcgg gattcatttc ctctatatta atcaaccaa cggtaccaa atatgttctt 240
ttatcaattt gtacattcat ccgagtccat tttgggcgtt cgggaaaatc ttacagcatt 300
cacccttcat gtgtagacac atgttgcaaa aactagttat gatcagtga ttttttc 357

<210> 4960
<211> 329
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4960

tataagcgcg ggtctgggag acaaagtca agtgttcgcg atatgcgaag atgatgttcc 60
gagtactttg gatttgggtac gaccatgccc ttctgaattt caactgggaa aatggcgagt 120
ggaaaaaccc ccccgctttt acgccaccag cctatatgta acctttacgg gtgtaaaagc 180
tctataattg ggcctagggt ttagaagttt tcttttgggt aagctttgtg tcttttgggt 240
ntgaatttat aatacaagga tcttttctca tctgttctca cgtctctacc cattctcatt 300
catttgcattg tttacttctt tttctgaaa 329

<210> 4961
 <211> 373
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4961

tggactgtgc tannggagaa aacaaatgac caaagtgaac catgagccat ttctatggca 60
 aaattgggtg ttgaagagtc aaatattgat tcggcggaat tttaggtgta aatccagttt 120
 gagcaagttt agattgatgt tatagacttg tgtgaagtga gagtttgctc caaatttacc 180
 tcattctcaa tttcactttt caaacctaaa aaaccattg aattgagggg ttttggacac 240
 ctacattctg tgttgctgtg ctttaaagct tgacttcngc ttangcatga ttgatacatg 300
 atttgggagt tgtangaatt gatttgggca agattggatg agaggaagtg tgattttcga 360
 aatatgcact tat 373

<210> 4962
 <211> 345
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4962

agctgcatga ttatattctc gccctttgtc tagcatattc cttnttatat catcaaaacc 60
 tgcatagaatt acattctccc cctttttgat gatgacgagc attatccaat gcttgatctt 120
 tttgacatca tcaaaatctt catgatttac attctcccc tttttgatga tgataaccac 180
 ctataagtta ggagcaacaa ccaagaaaaa atatctattt gcatatagtg tactccccct 240
 tggttttgga atgtttgctt atatgagaca attgaagatt atatactttt catatataaa 300
 aagttgtctc atacagaata gaccattttc cttctatttt agctt 345

<210> 4963
 <211> 232
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4963

tgagatgagg aagtgttgaa ggggtgaaact tcctgcnttt attgttgacc acagagtggg 60
acctggagat atgtcgcggg ggtcaggaga ccttggggac gtcagggtggg gtgctattgc 120
ccaaaaccaa tcttgaccaa tcccgaacca acccgggcat agtcgggtcag tgagaacctg 180
tgatgtacct aagcaggcga gctcctggca gtcaacagat aaaaggaaaa ca 232

<210> 4964
<211> 398
<212> DNA
<213> Glycine max

<400> 4964

agcttcaccc aaacctatgg tattgattac tcataaactt ttgttcctgt tgcaaaactt 60
aacaccatta gagtcctctt ataattggct gcaaatttag attggccatt acagcaactt 120
gacgtaaaga atgtcttttt aaatggggac ttagaggagg aagtctacat ggactcacct 180
tctggttttg aatctcagtt caatcaaaag atttgcaagc ttcaaaagtc tctctatggc 240
ttgaaacagt cacctatagc atggtttgag agatttgccc agtttattaa gaagctggga 300
tattctcagt gtcagagtga tcacaccttg cttgtgaaac actcttttga aggaaagatg 360
gttgatttaa ttgtctatgt ggatgatatt ataattac 398

<210> 4965
<211> 248
<212> DNA
<213> Glycine max

<400> 4965

tggatttgga ccttgtcatt ggacccttca actcatgaag tgcttttacg ttcttgtgct 60
ttttggatat cctctatca tcccctcctt cttgaaaaga atctgtcctt ggataatgct 120
cttgggatag cctttatca tccgctcctt ctttagaaga acctatctc atatgtgcat 180
gcaagacacc tacatcacia gaagaaagat caataacatt tgaagttgaa ctaaccccg 240
gcttactt 248

<210> 4966
<211> 68
<212> DNA
<213> Glycine max

<400> 4966

gcttatttaa ttttaacttt tatttgatgg agaataattaa tttggcacga atagtaatga 60
tatttcag 68

<210> 4967

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4967

tgtcaataca ttggatcaca aaatcaatgg tcgaatttca aaatcaccga ctgaactgat 60
cactcgatat tgtagtgtta taaataattt tttgtatatt tatataatat acatattata 120
aacataatat ttgtcaatat tgttacaaga ataacctcca tcttagtgta aggtgtgctt 180
gtgtcagttg ctgacgatag atttgagcct tgatatgttg ctttttgta atttattcca 240
ttaaatacga atatcttatt ataaatatca catttgtcaa tgctaaaaaa taaaaaggct 300
ccagggtagt ggtaagactt ngttatctcc catcactgga gatatattga tacctatcat 360
tcacacaaca ataaaaaat tccttcctac cactntactt gatg 404

<210> 4968

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4968

tggacgtgac caatgaaccg tgcatttgag gccctgtana tcctcacctt ggaataggct 60
ccacatgata catggcaggg cctggatngg ttcagaggta acatggatgc cccacagtat 120
tttcatgact ccaaagcaca aatgatcatt tggatactat atgcggaact ggacattcat 180
gcctttttgc ccacactcat atgtcaaagc tttatcgcca tgtgatgcta cggctacgga 240
ttcattttccg ttattttaat caaccacatg gttccaaata tgtcctttca tcatttgaca 300
tcactcgggc cctttgggag atgggaaact tcaatcatca cctcacgggt gacactttta 360
caaactacat cacatgatat ttttcaaaaa gtggaaacct ctttcaaca tgtggtcttc 420
tattccacaa attcattttt tattattttt ctcac 455

<210> 4969
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4969

agcttgaaca ctgcatcctt gttcaatagg ttgctcaatg gtttggaat tntggagaaa 60
 tccttgatga acctccgata aaaacctgca tgtccaacaa aactcctgat acccttaaca 120
 ttactggtg gtggtaactt ctctatgaca tcgatttttg ctttgtccac ctcaatgcct 180
 tgggctgaaa ttttgtggcc caacattatc ctttcttgaa tcatgaagtg acacttctcc 240
 caattcagca ccagattcgc ttcaacacat ctttgcagct gtcataccct aatttcgtcc 300
 ggggactatc gtttgttgat cttttgatcc ttgctagtcg acttacgatg ttcaaacgcc 360
 agttacagtg canaacagat gatcat 386

<210> 4970
 <211> 336
 <212> DNA
 <213> Glycine max

<400> 4970

tataccaatt atgtatatat tttttgcttc atcagttggt ggatggaaat gccatcaaaa 60
 tgccaaatga gtggtggcat ggaaactaaa agctcattaa ttatttcttg cattgatggc 120
 ctggattttg gatgggggca caagcatggt aatgctaata ttacaataag cacaatttct 180
 tgcatacctt ttcgatagaa gggtagtggt attcgtgagt ccaataaatg aggcagaaat 240
 gttagaccag agatgcacat gctatcaaga taatagtcac agcaattggc agagataatc 300
 aattacaact cacatcactt gctacgacta caacta 336

<210> 4971
 <211> 131
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4971

tctgcttatg ccagcaacag ttatacctaa ccatttgant tagaccaagc atgcaaaaact 60

ttttaagttc taattataat atatcaacaa actggttaat tccctaattgg caaacgggaa 120
gtttcttcat t 131

<210> 4972
<211> 172
<212> DNA
<213> Glycine max

<400> 4972

cttagttagt gttccgtagt cgaaatggtg tgcttgactc ttacattact ttagtcagag 60
aaaatttgac attgggttta tgtgttgacag actcatgggc ttgcagaata tatagctcaa 120
gtgagattta ctttacaact agatactttt atatacattt ttagactaca ta 172

<210> 4973
<211> 276
<212> DNA
<213> Glycine max

<400> 4973

agcttaacca atgtcatgtt aaaaccactt tttttaagtc acgtcaagac cctgtcactc 60
ttatatattc atgtgaaccg agcatatagc catgagcatg ctgttatcat aaaattaaat 120
tacaacagtg cccttgaagg aaagtccaga aaggtacaat aagagaaaag tttagaacac 180
accaataggt aaattagttg catcagctaa aatgatgatg caacagtctc taatgatcca 240
ataattaact agctagcaac ttgtgggtct tatata 276

<210> 4974
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4974

tgtagaggct acaacaagat agtgggttcta gagaataaaa cagttaatat agataaattg 60
gccatggtaa acaatgacac tatcataagt gtgctgctct attccacaat attgggtntg 120
gttttcatga gtgtccaaca gcatcatcat tgtattactt tgcttttaac agaggccaga 180
cagctgcttc tgcaattaag ttgacatttg agaataaaaat catgtaatgt aattcatgcc 240
cctctattca tgtgaatact taaatacacg catgctntgt ttgcanatca ccgggtagag 300

ggttgattag gtagttgttc anaggctctg gataatattt attttgactg ttaaaattac 360
tacaaatttc tagaatattc ttacatataa tatgtatgaa aatg 404

<210> 4975
<211> 414
<212> DNA
<213> Glycine max

<400> 4975

agcttcatct aactggatcat acatatgaat catggccgca gctccccagg cataccccca 60
ctttgacca ggtcgcgaaa agcctctaga tgtaccacat gaacatttgt tgcactcttg 120
ttagaaaaaa gagtgcaccc gaccaggtgt agtagataag cagcagctgc tacaatccat 180
cgtcgtgctt gacatctcat ttcatagatc tctgaaccc atgagaggtg tacatatgcc 240
ctgcgcgctc gtattgactc ggctctagcc tctcaccag acacctcgag caactccatc 300
aacaaaaata ccgtctcatc cacggaaata gcctcgaagc tgtggaaagc gccactgata 360
gggagatgga ggagtgcga cacatcatct agtgtgatcg tcaactctcc tact 414

<210> 4976
<211> 321
<212> DNA
<213> Glycine max

<400> 4976

ctttgcaagc tggaatcatt tatcctatct ccgacagcca atgggtgagt cccgtccagg 60
tagtcccga aaagactggc ctcacagtga tcagaaatga gaaggaggag ctgattccta 120
ctcgggtgca gaacagttgg agagtctgca ttgactatag gaggtgaac caggttacca 180
aaaaggacca ttttcccctg ccattcattg accagatgct tgaacgcctg gcaggtaaata 240
cccactactg tttccttgat ggtttttctg gttatatgca aattactatt gtcctgagg 300
atcaggaaaa gaccacattc a 321

<210> 4977
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 4977

agctntactg cctcatcatt gctgaagaag tttaataaac catcactccc tactataaca 60
aattgatcgg aatttgaaat tctatggaca ttcaatgatg gttgcgtgga tatgtatggg 120
gggcttttaa gatccccgaac tcgaaggatt cccatcaaag catcattcag atttttctgc 180
aggagaataa aataagaaaa ttaaatctat gtttgggtact tggtaggaca aagatttatt 240
ctttgcaatc gtccattcac agacacagtc agtagattga attttaaggg ttataatta 300
tcacatttac ttgctaaaat atcagtaccc aaaatcttat agaaacctat tggctgaagt 360
gtaagagaga atactaacct ttttcaagta gccaaactca aaagctcgag taaccttcaa 420
tttacctttc acttttctn ctataacgat cttgggat 458

<210> 4978

<211> 313

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4978

cttgagaatt ttaaataact gggaagggac ggcacttaag ttttctcaat ttaacaatat 60
agacttagta attaggcagc atttgatatt gaaagtggta ccattgtttg tcaactggaca 120
gtggaaaatg tatagatttc ttggccagct agcttgtaac tacagcatca taactgaatc 180
ttacgtttgt ttttatgaaa ttttttattt gctattcatt nttcattttg tgctatgtta 240
aatctattcg cttcattttt cagcggcttg gaaaccaatg gttgctggca tagatggcct 300
aaccttgggt ggg 313

<210> 4979

<211> 474

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4979

tcgtaccggg gatccttaag ttacctgccg catgcaagct tgtgagagtc tnttcactgc 60
aatttgtctt ccacttggtg gagttccctg ataaaagttt gcaataaata taaggcttaa 120
agcatataaa aagatggtaa aagtagagaa tcactaatat ataccttgta aacagggcca 180

aatccacctt cccctaactt agatgcttct gaaaagttat cagtactctt tagaattgtg 240
 attaatggga atgtaggcaa gtctacatta agtgtttctt cagtttgaac attgtgatat 300
 gatgattgat caatgggtatc aggtatcctt ccatctgcaa agaagacaag tttttgagtt 360
 tgtgaaataa actaaaattt ctagtatata tgtattgttt caggaaatta ccttttcctc 420
 ttcctcttct agatcttttc ctgaaccaga agcaataaac actgaaacat agta 474

<210> 4980
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4980

tataagctag ttgaaagctt atattaaatc agttaattag tttataagtt ntttttacta 60
 attnttaatt tttcaacttt tagcttatga caatatatgt ttggtaagggt ctttgaagaa 120
 ctaataagct tctttaatta gcttataagt ttctttgagc aaaataagtt tgtttggtat 180
 ctaacttatt ttaatagttt attttctata agctactact tcaagtaatt tattttgata 240
 agttatttga agtaatttat agaaaataag ataacatata aattattatt ttttttcttc 300
 ttctccattt tacttttact attttatttg acatttcatt ttacccttat attcaataaa 360
 aaatcttcta tctttttgtt ggtgatgaaa aactttgtat ctattntatg ttttacaata 420
 tgatatcacc tctc 434

<210> 4981
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 4981

agctttaaca atatattctt tgcgggaaat tatccatggt ttggttgacat ggtcaacaaa 60
 cattgggttat gctgaacaaa caatttcaaa cttcttaaag caatcatcga aatgatcctt 120
 aaaaggacaa tcaaccaaac tccccagac atacatcaca taatcccatg catttttttg 180
 accaactaga gatttacatt ttaccttgac attcttgtca atgtgaaacc tacacaacaa 240
 gttggtacac ccagggaata cagtattcac tacattcatc aacgttaggt ctctatcggt 300
 aacaataact ccaaggagga catcacatct tagaaaaaga cattgaaacc gttctataga 360

t

361

<210> 4982
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4982

ntgtggcact ctgttacaca cgtcagccct ccatgtcagt cctggcacag gagcacatat 60
 atcatgccct tagcaattgg actctcaact gacagggtat ctctaaccat ttatattatt 120
 tgaatatatt gcaatctcct tatlacgtgg caggattca attatctcta agctacacat 180
 tatctataag ccataattat ttacttgtca ttacctacaa gtcggtaatt atctgtaagg 240
 gttgttacia caccgtaata gccctacaa acaatatcct gcaacttcta ctctactcta 300
 taagtatcag gtttcatctc actcttttca tactcattca tactctccta attaacatac 360
 ttacttgagc gtcag 375

<210> 4983
 <211> 128
 <212> DNA
 <213> Glycine max

<400> 4983

agctttgagc aaattcaaac gacaatcact tttttactcg gatgtctgat tgagtcccgt 60
 aatatgtcga gacgctcgaa attgaagaac gaagctctga gccaaatcta acgacaataa 120
 ctttttac 128

<210> 4984
 <211> 306
 <212> DNA
 <213> Glycine max

<400> 4984

actcagcttc gtgatcaatt tcgagcgtct cgatatatta cgggactcag tcagacaacc 60
 aagtgaaaag ctattgtcgt ttgaatttgc tcagagcttc gatattccat ttcgagcgtc 120
 tcgatatatt acgagactca atccgaccac cgagtgaataa gttattggcg gttgaatttg 180

ctcagagctt cggcattcaa gttcaagcgt ctcgattatt acgggactaa atcagacatc 240
 tgagtaaaaa gtattggcgc ttgaattgct cagagttcgg aatccatttt gagcgtctcg 300
 atatat 306

<210> 4985
 <211> 252
 <212> DNA
 <213> Glycine max

<400> 4985

catggagaac atgtactaaa ttactaattg taagaaatag gcttctaaaa aataaaaata 60
 aagaaggacg attatgaaat atacagatac cttccataat atgatcatat tatggaatag 120
 atagacggct attttttcta taatcaaata cattaaactt ttgaaccctt aaaatcagtg 180
 gtcgggctct agtaggaaca ctgaagtctg aacccttcag accttgacag acataatcca 240
 tatatagaag tc 252

<210> 4986
 <211> 200
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4986

ctgctagtga aagggttac tegtgcattg ttntgggtgt gttatcangt acattcaata 60
 ttttataaac tcaatgctaa acataaataa ctaatattat aatatgtact aacgacaaaa 120
 tttagatgca gtttcttata tactttaaga actattctaa cattagaatt ggaattctat 180
 tttagtaatt catacaatga 200

<210> 4987
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 4987

agcttgccca gagtatgaat ccacggagga tatgcttacc acctcgaaag actggaaagc 60
 ggtttctaata gactcttctg cggcctccac ataaggcata gaggatgggc agctcaccaa 120
 gatgtcttcc tcgcttgata cgatgaccag atgccctttc actacgaagt tcaacttttg 180

gtggagtgtga gaggaataa ctcccactga gtggatccac ggacgccccac acagacagct 240
 gtagggggggg gttaatatcc attatttggga aggtaacttg acaggtgtga gggcctatct 300
 gtactgggag atcgatctct tccctaacct ctctgcggtt gccgtcgaaa gcacgaacca 360
 ccattgaact cggctttatg tgggaagttt gaatggtatt tttccaagtg ttttatgcat 420
 acgttaaacc 429

<210> 4988
 <211> 210
 <212> DNA
 <213> Glycine max

<400> 4988

tcttatccaa ggctcatctt ggtggtggag ctcttcttc catggcttat tccctagtgg 60
 atggcccttc ctctcacctc ttctgctttg tcttcgctg catctccatg gtggaaaatc 120
 accattaaag gacctcattg aagctcacag atccagcctc cataaaaagcc ccacaagcaa 180
 gtttccatca agtggtaatc agagcacatg 210

<210> 4989
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 4989

agcttcgtat caaatgacac agaaagcgtg tttctgcttt gcgcatggga gatgttcggg 60
 tgacaccttg catgcacgat tcttttctact aaaatcgata atattacaaa actatgtatc 120
 agtatcgata atttagaaaa ttatttacgt gtaaggggtga tttttgccac tccaaaatct 180
 tagttgataa aaaatactct cattataggt aaataatttt caaaattacc catattggta 240
 aataatttta caaaattatc catttttagta aaaaaaaaaat agtggtgcat gcacctttga 300
 aatgcaatag aaattatgag agtaaagaat ttattagaaa gcgtgggtttt atcaaacttt 360
 aatgtactaa cacagtacaa tataactctc ttcaaactta tc 402

<210> 4990
 <211> 294
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4990

ttgagctaga gtgtgatgcc tctggtgtag gtgtgggagt tgtgttatgg taggggtggac 60
 accctattac ttaatttagt gagaaacttc atgggtgccgc tcttaactac cccacatatg 120
 ataaggagct ttatgcctta gttagagccc tccaaacttg ggaacattac cttgtttcca 180
 aggagtttgt tattcatagc gatcatgaat cacttaagta cattagagga caatgcaang 240
 tatacaagag gcatgcaaaa tgggtagagt tccaagagcc atttctatat gtta 294

<210> 4991
 <211> 311
 <212> DNA
 <213> Glycine max

<400> 4991

agcttgtcct taaattcagt taagagcaac gcatagctca cattatctgc ttcaactcct 60
 aaacaatcca aaatttttgg cttctgggtt tatgtcaata catcaaaatc ttatgtttta 120
 cttgtgtcat catgtaatgc ttcctctact attgattcca taaaacagaa aaaaaaacac 180
 tataaaatga aacctaatat catcaacaac ataaaccaaa atttttggct gctgggtttg 240
 tgcccattcc ccacatttga tcttcgatga tccaatctac aaatctcccc cccgcccccc 300
 ataaaaatga a 311

<210> 4992
 <211> 355
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4992

tataaactnt atacaagaat gaagctctga taccacttgt tagacaagtg gcctcagata 60
 tcttaagaag ggggggttga attaagatat tccaaattat ttcccctaata tagaaatcta 120
 tttcactttt taaccaagtt atgaattccc ttaatgaaaa tcttcttaaa tattaattca 180
 aatgaaacaa tttgaatatg aatataaagc aataataaat aaaggagatt aagggaagag 240
 aaaatgcaaa ctcagtttta tactgggttc gccacaccct tgtgcctacg tccagtcctc 300
 aagcaaccog cttgagagtt cactatcttg taaatccttt tacagttcta acaca 355

<210> 4993
 <211> 274
 <212> DNA
 <213> Glycine max

<400> 4993

agcttctcgt tcattgccat aggtgtggca agtggtttgc aatcttgcac gttgaacttc 60
 ttttaataagt catccgcata tttttcttgc gagaaaaata tttgtccaag tctttgcttg 120
 acttgcacat tcacatatag tgacggctca cttggacttt tgaggaatct atgctcgacg 180
 aaggatttgt ctattttgtt gtccatgctc ggggagcttg tttgagacca taaaatgcat 240
 ttttcaagcg atatactttg gcttcttctc cctg 274

<210> 4994
 <211> 361
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4994

tgtaatcaat tacacacata ctgtaatcga ttaccagagg agattttcag aaaatattct 60
 caacagtcac atctttttat ttggttcttg aatggctatc aaaggcctat atatattgtga 120
 cttgagacac gaatttgcga agactttttg agaacaaaaa ggtcttatcc tcttaaagag 180
 caaaattggt ttatctctctt acaaattcct tggccaaaac acttgtgatt caataaggaa 240
 ttatttgagt gctcaaattg ttcaatctat ctctntaaag agagatttct tcttctcttc 300
 ttctttattt tgaaaaggga ttaagagacc gagggctctt tngtgtaaag aaatctgaac 360
 a 361

<210> 4995
 <211> 288
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4995

agcttgtaat agtatnttga gcaataatat ccagctatct tttggatctc cccctcttcc 60
 cccctgattt tcttgtaaag cgataagtat gatataccact atgtctggct aaattctttg 120

aaggcaccct caaggggcct tatttatctt catttagaaa atgcgaatat gatttagaac 180
 ccaaattgttt attttacttt tgattttttt ttgaaaacc tgcggtttgt aagcctgcaa 240
 aggtgtgccc ttgatatatg ttttcaaaaa caatggaagt ctttatgg 288

<210> 4996
 <211> 220
 <212> DNA
 <213> Glycine max

<400> 4996

tggatctgtg tttcagagga atttgatgtt ttcaacgtat caagagcaat tcttgacacg 60
 attactgatt cgactgatca tggtagagag ctagaaatag ttcagagaag actaaaagaa 120
 aaattggcag ataaaaaatt tctcgtcgtt ttggatgacg tttggaacga aagcaggcct 180
 aaatgggaag ctgtgcagaa tgctcttgtt tgtggagctc 220

<210> 4997
 <211> 266
 <212> DNA
 <213> Glycine max

<400> 4997

cgattctcac tcaattcttc accaaatcac gtgccgtaaa gcccaatctt tctctttttc 60
 actcctcttt cacttcacc gatcaaaatc cagaaaaact tcatcaaatg gcagagccat 120
 caaagaagag aaagggatca tctccaccg ctaccgtgc tggccatgc cgtcacggcc 180
 catccggagc acccacagca cctattctc cttctttgtc atctccaaga tcatcaacat 240
 tgttttcatc cgatgatcaa cgtcta 266

<210> 4998
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 4998

tgtagaatgg ccagacatga tacatgtcaa gggttggtt ggttcaagga ttaaagggat 60
 gccccacatt atttcacga cacaatgca aaaatgatga ttggaaatt ttatgcaaaa 120
 ctggatcatgc atgcacctat gtggacgctc aagtgtcaaa tttttatggt catgtgatgc 180

tagggctcag gattcatttc ctctatttta aatcaaccca atgtttccaa aatatgttct 240
 tttatcaatt tgtgcattca tccgagtcca tttcgggcgt ccggggaaat ttcacagcat 300
 tcacccttca ggtgtagaca cattttccaa aaattgggta tgatcaatga attttttttt 360
 c 361

<210> 4999
 <211> 358
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4999

agctatgagt tggtttctgg ccttagaatt aattntgcta agagccaatt tggtgcaatt 60
 ggccaatctg aggagtgggtg tactcttgca gcagatatct tgaattgtgg tcctctgcag 120
 ttcccattta tatacctagg gatgcctata ggtgttaacc ctanaaggaa ggtgggtgtgg 180
 gagcctctaa tcacaaaatt tgaggccaaa ctgaacaaat ggaaccagag aagtctatct 240
 atggctggca gaattacttt aattaatgct gccttgacag ctttgccctt gttctatatg 300
 tcctttttta gggcccctac agcaatcatt aagaggctca ctgctattca aagacaat 358

<210> 5000
 <211> 329
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5000

nntggatattt ataagtcccc ttcaatcaag tatttgttgt ctctaaacgg gcatatttcc 60
 tctcttaagt ttgcatctga aaaatttgggt ccttgggtca ttaaattgcac gcacttcttc 120
 atgctaggaa actactcttt gttgctagtg ttttgaacac catagcagga aaccacttcc 180
 tttttgtatc aaagcatgtc tatgcagcat aacttttctt ttgatggcaa ctgaggaatt 240
 gcatagcttg acttcattta ttcttcataa gattcgagag atcctaagag aatgtttctg 300
 cacaatagat ctgagacaca ggatttaat 329

<210> 5001
 <211> 448

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5001

agcttgtgat aaggagactt ttccttcctt gtttgtccat taaggaggaa gcaatacaag 60
ttcctgcaac aaaataaaac ttcaatcaga aacaatatct tgtttgcgga acatatacaa 120
taaccttctt ttactgaatg cacaataaac atttttaaga ataaaaaata ccaacccaaa 180
acatttgatg caccaaccaa ggcacttgct gcaacatcag aagcaattcc agcactacgg 240
aacacagaag ttgaataata aactacagca tttattccag ccaactgctg gaacaagaaa 300
agtgtgccc caacactgac aactgaaaca aggcatantt taaggaagtg ctatatacta 360
tttcataaaa gaatacatTT aatcaactaa atagtaaact aaaaaaaagt tgtcagtgaa 420
attaaaacat gaacaatgat aatattat 448

<210> 5002
<211> 336
<212> DNA
<213> Glycine max

<400> 5002

tgttcgaaga tcctcgagac gttataagag gggccaatct ttctgaaaag actttcaaga 60
agtttttgaa gatttctctt gatgaaaact ataacctgca tccttttgag ttcaaccatt 120
cccacttttg caccatgggg tttgttacct ggtgggagaa atattattcg acccggtcag 180
ttggagacac tactatcatg atctccagac ttgagagtgg ttttacacaa ccaacggtcg 240
agaatatccg ctcaaacctt caagctcgag gtattaaatt acttttgact ttctaaattg 300
atatgtattt ttgccttttc taatattctt attttc 336

<210> 5003
<211> 238
<212> DNA
<213> Glycine max

<400> 5003

tattacggac ctataaatct cagcttcctg aactatatcg attgaaatag gtgctgacgt 60
tcttgacctg caaatcgcat catataacat cggaaagcaa tggtcgcgcg ctgagcactc 120

ataacatgtg gcttatcgct ttctctagac acgcactagg acggaggact gttacaaatt 180
 acatgaaacc atagatagtc tgcagttctt tattatatat aatgtggacc tccccga 238

<210> 5004
 <211> 341
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5004

catgaagctt cgcgcttttt attatgaagt tgcaatctaa cacaaagggg gatgatgttt 60
 ccttccaccg caaaaaataa cgaccagtta ttttcaatct actatcttta cctctttcct 120
 ttttcctttg gtttttattc actcaacttc ggcaactgtt tcacctcaca atcacaatgc 180
 ctgcatgcat aaatactatg tgtctgaaaa tcacaaccta tctcggaacg attgatgcgg 240
 taattgaatt tttttaatac aaatcataaa tgcataatt aatntgtgtt tagaagtttt 300
 tttactacta ctactataa tctaattaaa aaaaaagttt a 341

<210> 5005
 <211> 310
 <212> DNA
 <213> Glycine max
 <400> 5005

taaggattgt caacattcca atttctcgag gaatgtgacc gataagggtta ttttctgcaa 60
 tacgcagaaa tccaacttg ttcaacttcc caatctctgg aggaatgtgg ccagaaaatt 120
 tggcgggtact taagtctaga tatgacaggt tggacaagtt tgctatggaa ttaggaattg 180
 ctccacttag ttgaagacat tgggaaagat caagagcatg taaactcctt agtgaccaca 240
 tttcttgagg gatggaacca tggaaagaat ctaaagaaaa attcacaaca tttactttgg 300
 acatgttacc 310

<210> 5006
 <211> 291
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5006

tgctacaaac tgggaaggtg gttntagagt tactgaatca ctcaaaaatg gagcctatct 60
 actatagtct tatccgacaa ggtaattcca agagcctaaa acaagactta cctcaaattc 120
 tattacagtt aaacttgtaa gtggtgatgt actatcttct ctacgagatt tttttgtaa 180
 atatgtctta acgaggcaca cccaaatctt acattgaata aagtactatt tttatgattt 240
 ttattaactn tatagatctg agtagacca ttggtttctc tgactaaaca c 291

<210> 5007
 <211> 307
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5007

agctctgata ccacttgta tacaagtggc ctctgatatc ttaagaagga gtggttgaat 60
 taagatatta caaactatct tcccaattaa aattctactt tgattttaat gcaagttcca 120
 agttccctta atgacgaatt tctaaatgat gattcaaatt aaacaatttg agtgtaaatt 180
 taaaacaaca atagataaaa gagtttaagg gaagagaaag tgcaaaacta gttttatact 240
 gattcggcca tacccttggtg cttacgtncg gtccccaagc agctcgcttg agagttccac 300
 taacttg 307

<210> 5008
 <211> 307
 <212> DNA
 <213> Glycine max

<400> 5008

agcttcgacc tatgttcatg aattgtgtgc catcacaact gccgttaaga agtggagaca 60
 ataccttctt ggccatcaat tcatgatctt gactgatcac agaagtctta aggagctcat 120
 gactcagatt gttcaaactc cagagcagca aatgtatctt gccaggctta tggggtatga 180
 ctactccatt caatatcggt ccgggagcac taatttggtg gctgatgcct tatcgcgctt 240
 gaaggaggga tcagaaggaa ccatgttatt actatctgta ccttgctga catttctaga 300
 tgaattg 307

<210> 5009
 <211> 311

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5009

tctcaataaa tacttataga tgaagattat taanaagcaa attaatgaat caaatgtgat 60
tagaagtgta tatatatgta taccatgttc tttgagccca gttgccaaagt tgtagtctt 120
tctcccaagc ctgttcatcc cggtaagaac tgaatttact ctacctgaaa aatcaagaca 180
ttaattcagt atttcagtgt tgtgaatata aacatacctt tattgaatac ctgatgaaca 240
attatctttt ctctcgtttt ctaattaaac aattgatcaa attattttct aataaacgat 300
atatatatct c 311

<210> 5010
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5010

agcttgatat tttccatata tctcaatgaa ttacaattgc tttatttata ctagtttctt 60
tgctaacggt ttttgtcatt ttgtgccaaag gaatattttt aggaaatcat tggatcatca 120
attatgacta cactgtcccc ccatgaccaa caattcctca tctggcaata tcagcgcaaa 180
tctaggtcaa ctctctctcc atgacttttc tttatacgta gtccctgatg taagagggcc 240
ttgtgatggt cctctttgcc tttgctgcta tttgtaccg tttgttctgt gtttgaacct 300
ctntttgatg atctttgttg cctctgctag ctatttcttc ctttgtatca cctgtactta 360
gatggaatgt tac 373

<210> 5011
<211> 282
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5011

nttggcttta aataaaaagg gttctccctt tttcccttat tttattcaag ctctgccaca 60
tgctcttatt tgagtggagc aagaagggcc cactttctct ttttgactgt gaccatact 120

cagtcacaaa agtgagaaaa aatctgacct ttgaaacgct aaaatcctgc ctcggtttgc 180
 gtgccatttc tctgattcca gattctcgcg tttctctgcg tccgccgggg ccagttttcg 240
 aaagcaagca atatatatat cataacgctc agaatgaaac cc 282

<210> 5012
 <211> 326
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5012

gcttgatcaa aacaattatc taatcattcc aatccactca aatcatacaa ttgctcattc 60
 aaatcattct caaacactca tttcatgcaa aacaatccac tacatatcat tttcaatcaa 120
 ttcattggtc aaacacgctt ttggtacaaa caaacaactc aaagtgctga aatttatata 180
 attgaaattt aaaaaaattg aaatataaaa tctgaaatta aaatgactga acatanatca 240
 taaaataatt gaaaataaac taaaatgttc gagatgcaca aatttaaagt tcctgctcct 300
 gtggntgctc ctatgcatgc tcatta 326

<210> 5013
 <211> 302
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5013

tgctctanat tacattgatg tttgtattta tgggaggagg ttatatgcca tttttgcttt 60
 aagagtagtg tcccactggt aaaattaact ttccaaatgt ttgccttcgc aggaatggcc 120
 ccgaggaagc ttgcctcaaa gaggtccagg aaggacaagg cggccgaagg aactagttcc 180
 gctctggagt acgacagtca ccgcttcagg agcggtgtac accagcagcg cttcgaagcc 240
 atcaagggat ggtcgtttct ccgggagcga cgcgtccagc tcanggacga cgagtatact 300
 ga 302

<210> 5014
 <211> 129
 <212> DNA
 <213> Glycine max

<400> 5014

agcttttagtg actatatgac gtagctccat tggagcttgt aggccttgga tcttcttcat 60
caatggagtc ctttgcttct tgaattttta tggcagtgga atggagaaaa agaagagttg 120
agaggagac 129

<210> 5015

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5015

tgnagactgca tttgggcatt tattttgact ttcctatgct gtctctacat acacaaaata 60
gccccacccat cccaattttg caaaatcata ttcattcatc attggggcat ttcaccgagc 120
acttggtgag cgcatgtttg aacataaatt gcaagaggat ggggacaatg tggcatgccc 180
cattgcttca gaatacaacc taagcctaag gccttctcat ccaaaccctc aaccaagaa 240
aacaaggatc aaagcaaacc aaaactgcct cacaaatata agcatgttct cacaatttag 300
agtacaaaaa gatgaagaaa acacatcaat gggaagcgaa naacatcaag gatggaatac 360
ttacttggtg agtgaattga acacaaaaat gaagcaaac 399

<210> 5016

<211> 354

<212> DNA

<213> Glycine max

<400> 5016

aggctagttt tggacccttt atcattgact tccaaacttt ataatgaag acattacgat 60
tgcagaaaat ctatttatgt ttcgaagggt tacaatggta gtcatttata tttaatgagg 120
ctttgatgga aaggtagctt attaaaaaga gacttacaca tgtgtcaaaa aaaggtttgt 180
gaacactttt gcgttaaaaa gacgtctata tgggtgcatg taacattgac ctttacatgt 240
taccataaaa taattctact atttgataa taatatatgt atatataata taattcatac 300
ttatcatcat tctatttata tatctatatg tcacctgtca tatttaaacc aatc 354

<210> 5017

<211> 408

<212> DNA
<213> Glycine max

<400> 5017

tctaaagaag atgtaaaaat ctcattgtgcg agtaaaatag ttggaattat agacaaacca 60
 aaatatatat tagaggggta gttgatggga atatctaaga tctatgacta tatccaacct 120
 cgttaggcta caagaacacg agtttggagt caaatcaaaa tttcttgctg aggatagtta 180
 tctagaagaa ccaacaaggg tttttgtgtg tgttgtgtac tgttaactgt caactttatc 240
 agttcgagtg atgagtagca ttgcacaatg taatcgaaaa ttctcataaa caaaagccgt 300
 agaagtgaat atttatgata atacctaaca aaagaagcaa ttgctggcgg taacagcgag 360
 attaattatc gagcagttgg agcagtgctt tgacgcatca caacaact 408

<210> 5018
<211> 74
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5018

tagcttgtan gccttggttc ttcttcatca atgtgagtc tatgcttctt gaattttaat 60
 cacaggggaa tgga 74

<210> 5019
<211> 229
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5019

tgcttgagaa gcttctatgg aggctggatc tttcagcttc aatgagatcc ttcaatggag 60
 atgcaacaaa agataaagga gaagaggtga gaggaggcgt catcccctag ggaataaacc 120
 atggaaggag gatcttcacc accaagagag tgcttctgat aagaagcttg aagaggaagc 180
 ttcaatggag gaaaagaatg agagagagat agacggnggg gggggggggg 229

<210> 5020
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5020

tttatattgc taagagccaa tttggtgcaa ttggccaatc tgaggagtgg tgtactcttg 60
cagcaaatat cttgaattgt ggtcctctgc agttcccatt tatataccta aggatgccta 120
tatgtggtaa ccctaaaagg aaggtggtgt gggagcctct aatcaaaaaa attgaggcca 180
aactgaacaa atggaaccag agaagtctat ctatggctgg cagaattact ttaattaatg 240
ctgccttgac agctttgect ttgttctata tgtccttctt tagggcccct acaccatcat 300
taagaggctc actgctattc aaagaccatt tctttggggg ggaaacttat aaagagaaaa 360
gaagcttggg tgcttgggaat aaatgtggct n 391

<210> 5021
<211> 362
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5021

cttggatatt ataagtcctc ttcaatcaag tatttgttgt ctctaaacgg gcatatttcc 60
tctcttaagt ttgcatctga aaaatttggt ccttggttca ttaaatgcac gcacttcttc 120
atgctaggaa actactctnt gttgctagtg ttttgaacac catagcagga aaccactatc 180
cttttgtatc aaagcatgtc tatgcagcat aacttttctt ttgatggcaa ctgaagaatt 240
gcatagctcg acttcattta ttcttcataa gattcgagag atcctaagag aatgtttctg 300
aaaatagatc tcagacacag tatctaataa aattttaaat gttatctcta atgttgatca 360
ta 362

<210> 5022
<211> 286
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5022

tcttgatttc ttccaccatt ganttttcaa ccgctctaatt tcttgccctc acacttagca 60
aatctgaaac cccatctggg atcaaagtgc ttttgttata tcttgaactt tgatagccat 120

tttcatggag acaagtttca attactgcat cctggacaaa caaacattca tgataaacia 180
 ggataagtag aattcatatt tcttgcata gtcattgcc tcatttaata agacagactt 240
 aagaacaaaa ctgaagtaca cgataacaag tcaatggaat attacc 286

<210> 5023
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5023

agctntcaca atatctagac aattcaattc catttgtcat gaaactacct taaacaaaga 60
 aaaataaagt ggaggcagaa tctttgcaca agattcattc aaattccaca gagtttttcc 120
 taccctcata cctcagcaaa atcctcttct tttcgatttg ttaaccattg gatctccttg 180
 aaaattttac tgggggttcc taatgcagaa atctaaattt tgaccgttg gatctgctat 240
 aaaatgtcta gaacacgaga tgtactacct ttcccgtgac tagcactgcc caaccatttt 300
 tctacataat ttggcagtn tgctacacaa tttaacagct gtctctgcat aatctggtag 360
 atntcgaatt ctggcttgca tgtatccaat ttactcana ttggatccta caagtcctaa 420
 atcatgtata aatcatgttc aaacc 445

<210> 5024
 <211> 381
 <212> DNA
 <213> Glycine max
 <400> 5024

cttatcatcc tttttagtga ctcatgatag tcttaagttt atttcaattg ttgttcttta 60
 cagaaatttt catttctgaa tacacttaag caaactcacc agtaggcata aacttagaag 120
 gctcatgatt cctgctcaga aggtttttca taattaaaac accaataatt ttggactcaa 180
 cagttcttta attttgacac actcataatg atgctcagaa aggttttagag agcaactacc 240
 agagttgaga acttgggaata attcttgaag cccattaaaa tgatggagtg tgcttccttc 300
 taagtactta attctaggaa aatgatgaa caacaaggcc ttacatagaa gattcattag 360
 atgctacatg aagagcatca t 381

<210> 5025
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5025

agctnttttaa caaacactgg cgcataatat ttctatactg ttaagaaagt tttgttggtg 60
 gtgtcgccta taaaattttc aatgttggtt ggctaagttt tttcgttcga gctcaaata 120
 atttgtatctt cggccgacac cggcatgttt tcatttgctt ggcaaggaaa acattngccc 180
 acctcagaaa aaacatgatt caccgatacg tatcgcaaaa gattctagcc gacgtcggcc 240
 aagagagatg accgatcgag ctataaaaaa gaagcatcac cggatgacgc cgatcgaaca 300
 tttcctaata gacatcagcc aaatattatt cagggattga atagaaaata caatatctga 360
 aatcggtagt taaaatgct 379

<210> 5026
 <211> 371
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5026

ntacaacaga ttntagtaat gaccactaa cctagaatta aaataactta atgccattaa 60
 cctagggat taaaaaaaaa cttaatggct gagtgtaact gaaattgtgg caacccaaag 120
 tcaccccaac agccaacaag tcagccacca tttggtctcc caaaaggctg atgcctatgt 180
 tgccaattgg gcccttatta caacttgaac taaacctaac taaagccctt ttagtttatt 240
 aacccaaaac atatttttgg tcaaccaact ttacaaggat tgagccatta ttagacaaa 300
 ctaaactc taaaattgag acaaagtgg gccatttagt cctcctccat ttgggccatg 360
 atacaactca c 371

<210> 5027
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5027

agctngatgc atacataaat caacaaaaag aatgttagtg aattcattca ataataatat 60
 tacattatag aaattaataa ataataagtt aatataccaa tttatcattc aattattatt 120
 ataatatcat attttatata aaattgagca taatatatat taaatatttc aaaaaaaatg 180
 aaatagcatg tgaactgcag tgatttttta tgatttgact caaacaaaat agtttttcgt 240
 aataataatt caaaaaaata taaatataat tcttaaatta attttactat ctaataaatt 300
 atattatcat ataaatatta atctggcatt aaattttgca tatgaagtta gatgcataaa 360
 tttaatcaac anaaaaagag ag 382

<210> 5028
 <211> 411
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5028

tggagtcact ccaacacttc atgtacttag ctcttgtaac gccctttgtt acaataacaa 60
 tccgtaataa aaatatactt tataacgttc ataaaataaa aatgtttatt ttaatgggtcc 120
 aaaatacttc aaatattata ataaatgagt ccttacaaaa ataaacaact ttattctcaa 180
 atatgaacag ctacaaagtt taacgaacaa tgaactgagt cttcaattct cttttgtctt 240
 aaaagcttct tctcgaact cttaaacaac cacttttaat gagataataa tctcaatgaa 300
 taaaataagt tctgaaagga ttcacaaata gtgttggtct cagacgacgc ggtaatcaga 360
 aaaatccaat aatgatatcc ataanattaa aatttaaata atatatacat a 411

<210> 5029
 <211> 368
 <212> DNA
 <213> Glycine max
 <400> 5029

tagcttgcca ccagctcgt ccaggcgagc tatgttgctt cctccagaat gttgttctgg 60
 tggaacttct tggaaggccc aaatgggcct gggtgctatt tgcaccccca tgtttactaa 120
 atacaccccc tgcctttttt gctgattctt tttccgtaac gttacggatc tttacgaatc 180
 acgtaacgat acttgtttcc tttccgtaat gtcacgaaac ctttttacgg attacgtaat 240
 tatccctttt ttggctttcg gaatgttaca aaacatcacg gatcgtgcaa caatgcttcc 300

ttttgacttt cggcattgtca cggaacttca cagattgtgc aacactgctt tcttttgact 360
tctggcat 368

<210> 5030
<211> 285
<212> DNA
<213> Glycine max

<400> 5030

tggacataaa ccccgctac agttgcctgc tatgtcgcc ttggatccat tctgttggg 60
tggtcctgtc aatgttgac caaaaattaa agtttatggt ggaaggacaa ctggttatag 120
tgccatggga agaagatata ctaatgagtt gtccatcctc ttcacctat gtggaagctg 180
tggaagagtc attggaaca tcttttcaag cactagaaat tgtgaacaat gcttatgtgg 240
aggctcctct ggtgcaaccg cgtctatctg gtgatggcac aga 285

<210> 5031
<211> 397
<212> DNA
<213> Glycine max

<400> 5031

agcttatggt agtgaactct ttcactgtgg tctcgacata caagctttta gaaggactac 60
aacaatctga acaagagggt cagcagagtg caaacttggt ttccaaattc tgggtgtgcaa 120
aagttccaac gaaagtactt gttttctctt ggaaattact ccaagatagg cttccaacag 180
cacaagcgct ctagaggagg ggagttatta ttcaagacta caatttttca tgcaaactgt 240
gtggccttga ggtggaaacc aacaatcatt tggttcttact atgtccggtg attaacagat 300
tgtgggaaag agttatggca tgggtgggaa tggatttaca aattccaaat catatcaacc 360
agctgttcgg gatgattaga gagaatctat tgggtgc 397

<210> 5032
<211> 346
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5032

tggatttcct tttagtaggg aatctatcct tcctaagatg gagccaaacc cagtcaccct 60
 tattaagaac tagctctttt attcctttat tgcctttagt tgaatacacc tttgtttggt 120
 tctctatttg gttcttaacc ctctcatgca acttctttac aaactctgac ctagattccc 180
 cttctttatg tataaaagaa gtgtctagtg ggaggggaat gtgtctagtg ggaggggaat 240
 gaggtctaac tgtgacatcc tggaaatatt tacctggaat tttgtaagcg atatattnta 300
 aataaatata tatatgtatt attcagtgga tatatatata tataact 346

<210> 5033
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5033

agctntgcat gtctagggtt tctagagaga gaaaggcca agttctagag agttttgaga 60
 gattttgttg tgtgaagatc tgcagagacc agagcttgaa acaagagccg gtttgagagc 120
 ttgagatgag tttgtgagtg attgagagat cctagagggtg aaggagacat cttcaccact 180
 tgtatatttg caatctttca tcttgttctt ctctttgttc ttaagaaggc tttctgggat 240
 ggaaagctaa atcctttgtg gatcttccct gtaggtacct gatgtaaata tatttctatc 300
 tatttaatga tgttntgtgt gttctctgtg ctatctgctt ttcattccag tatgccttta 360
 ccttgatcac gtagatg 377

<210> 5034
 <211> 246
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5034

tgtagaatgg ctagacatga tacatgtcag ggtttggttt ggttcaagga taaaagggat 60
 gccccacact atttccatga cacaaatgca aaaatgatga tttggaaact tttatgcaaa 120
 actggtcatg catgcaccta tgtggacact caagtgtcaa acttttatgg tcatgtgatg 180
 ctagggtca ggattcattt cctccattnt aaatcaaccc aatgtttcca aaatatgttc 240
 ttttat 246

<210> 5035
 <211> 293
 <212> DNA
 <213> Glycine max

<400> 5035

taaaacaagc ttcccgtcag tggtagctta agtttcatgg gataatttct tcatttggtt 60
 ttgatgaaaa ccccatggat caatgcatat accacaaggt tagtgggagt aaaatatgct 120
 ttcttggttt atatgtagat gatattttac ttgcaacca cgattcgggt ttgctacatg 180
 aggtgaaaca atttctcttc taaaattttg acatgaaaga tatgggtgat gcattcttatg 240
 tcacggcat taagattcat agagatagat ctgaggtat tttaggtcta tca 293

<210> 5036
 <211> 345
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5036

tgactaggcg agttgattnt agccttagtt tcactttagt tattagtcaa ttaaattaag 60
 aatgagaaat cccaaagaca aaacgtccga ttgattnttc gctttatttt actaaaaggt 120
 attttttgat tattatatta ttattttacc tcttttttta tttccaacgt ggttacgaca 180
 cgaccgaacg gtcggaattc attttaaccg aaattaacgg atgatgcaat tcanacgatc 240
 ggtggaaatt tattntattn ttagattang cgagaaatga cttatataaa tggcttaagc 300
 acgtncaaag ggggtataaa aagtgaatgn aaacgagaat aaaaa 345

<210> 5037
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 5037

agcttatgaa ccatatgcaa aaatgtgatt ggtaaggat ttggcaaaaa gcttagcctg 60
 aagttcttgt taaatatattt attgaaaaaa aaatatggta atacaaaata attttgctat 120
 tgaattctat atttccatgg ttttggttta agaattgtat gatagagaat atttattctc 180
 cattaagcaa ggggaaagta gaattattat gaaggattaa aatattaata gaatttttat 240

gatttcaaat attaatagtt tatttataga tgtaatttac tacaaaatat tataacttttc 300
 ttttattcac gtaatacaat t 321

<210> 5038
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5038

ctgcaagaaa tagtggctaa tatgaggaca atccaattgt atgaggggac ccaacatcta 60
 gaggcctaca tgcgtgggtt gctagtcaca tgtattgctt gcttggagtg agaatagaag 120
 acaattattg gctaaggcat ttaataataa taataataat aataataata ataataataa 180
 taataataat aataataata ataaagtgtt tgtagctagt tttgagactt ggacctcaag 240
 cttaattatg cctcacttaa tcaactaaggc attntagtta tgtttacaat gttgagattt 300
 tatgtttctt ttattttcta ccaagtacac aagaagtgat ttgtataaat caattgtgaa 360
 gtgaatggaa 370

<210> 5039
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 5039

agcttgattg cctattcatc aaaggagaaa ttctcctgag ataatatatg agagatgcag 60
 caacaacctc agatttcatt cctttcactt caatggctat aatcagtcgt ttatataggg 120
 agaggcttaa catagacaca tcataaaacc accaatcatg gagttgagat ggtttctcag 180
 aagaaattcc attccacaat gcactgttgt ctgcttgatt ttgcttgcaa ttgcttccaa 240
 ccacaggcca gtggaataag gttggatctg aacaagcctt tatagccaag gaatcaatgc 300
 atcttgaaac tatatggaga tcttttgtca agggctgcac ttccttcaca tgttttaa 357

<210> 5040
 <211> 355
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 5040

tatagatcag ctaatccaag agaaaaatga aaaatcgcaa aattgtagg tgtacctaac 60
aatgccctca caaggcttgg cgcatgtcc catcctaaag gaatcaacaa cacactagct 120
aacctacttt aaaatttatc aaaaactact aataagatat aatataatta gtaaataatn 180
tagtcactta aacatgtgat cataaataga atctctagtt cgtatatttg gagaaacatt 240
agtttgaaaa gatcaatctt ttcaataaat ctactaggt aaaaaaaatt aatcaatacc 300
ttttgaccaa aaaatatnng attcctaccc atttttttta taaaaaaatt ccaaa 355

<210> 5041
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5041

ttattatagt ctttctatgg gacctatctc gatgggtcga ttcacaaccc cacaacatt 60
taacttggtta agcgtaagtg cttaaagtga ttgatagaat tgaacctatg aaattatctt 120
ggtagatgg tacaatttcc taccaagaac ttatcatgta ggagtaagtg cttaagtact 180
gtcataagct atgtctcaaa gacttacctc ggtcaaataa tccatagtagt aacaagtact 240
tatctagata ggcataagtg cttaagcttt cttgatcaat tgccttagt aacatgagaa 300
ttactttgat gagtttgaca ccctacccca acatgcatat aaatgaaaaa anaacataaa 360
tgcggaatct aattaaagtc aatttcattc aataan 396

<210> 5042
<211> 396
<212> DNA
<213> Glycine max

<400> 5042

tggttggttac agtgacaaca attgggctgg agatgaagat gattggaaaa gtaccagtgg 60
atttgtgttt ttcataaggaa acacaacctt cacttgtagt tcaaaaaagt agccgatatt 120
cactcttttg actcgtgagg cagaatacgt agcagctact tcatgtgttt gtcatgcaat 180
ctagcataag aatttattaa aagagttggg catgtcacia gaagagttga ccaagatctt 240

tgtggataat aagttagtc tgcctctagc aaggaatcca gtgttctatg atcgaagcaa 300
gcatattgat accccttacc actacataag ggagtgcata gcaagaaaagg atgtacatgc 360
agaatatgtg aagtctcaag accaagaagc tgacat 396

<210>	5043
<211>	390
<212>	DNA
<213>	Glycine max

agcttgtaaa tatttattgg tataatttgc ctgttcatt aggcctcttaa tgtctttaga	60
gattacttcc ttgttgacat cttttgtctt gaatggaatt gccatgatag gtttattggt	120
actgtctttg acatttggtg gttgatattg tgttgcgggg ggtaattccg attagattaa	180
ctcaccatcc ttcattcgcc aatTTTTTat gacatttggt gttggatcac ctatgatatc	240
ttgtttccaa gggtaatcta tatcctttct aatgggtataa gcatgaaacc aatcaaagaa	300
aaggacatta attttgactc tttcgacaaa ttcgtacaac ttgtcttgga tttgctatct	360
gtttgtaccc tagaaatgtc ggaaaaatca	390

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<223>      unsure at all n locations
<400>      5044
```

<210>	5045
<211>	391
<212>	DNA
<213>	Glycine max

<223> unsure at all n locations
<400> 5045

agcttntggc aaaggaagaa gaagttcaag aatatgttca aagagattca aaggttgtaa 60
aagaatatat taaaaagtac ctgaaatgca agtcaaggtc ttgcttttat agactcttca 120
tgtctgggtca agaaaacat tgaagagtta taacctttag aaaaacctga aaaccattgg 180
aagagttaaa tgttttgatt tttatttaaa acttgctgct ggtaatcgat taccaaaacc 240
atgtaatcga ttacacaaag ctttttatga aaggatatga ctcttcacaa ttgattttga 300
atttcaacat ttagatacat tggtaatcga tttccaatat cttgtaatcg attacacat 360
tttaaatca attggaatgg tgcaaattca g 391

<210> 5046
<211> 333
<212> DNA
<213> Glycine max

<400> 5046
tgtaggcta ggatcttctt catcaatgga ttcctttgct tcttggaata tgaatggcaa 60
cggaatggag aaggaagaga gagagagagg agacgccact tcaaggagaa gatgagtcta 120
gaagaagctc accaccataa gagggcatgg ataagagctt gggggaagaa ggagatgact 180
gaaggagag agagagaaga gcacgaaatt ttgtgctcca aatgagcttt gaaatctgaa 240
gtttgatatt caaatgatca aaagtgaata aaaatcacac acatgacctc tatttatagc 300
ctaagtgtca cacaaaaatg gagggaaatt cca 333

<210> 5047
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5047

agcttcatgg atntccttct acaattatat cttataagga tgcaattttt ctcagcagtt 60
tttggaggga gatgntaaat tggctagaac tagtcctaag catagcactt cttatcatcc 120
ccaaacggat ggtcaaaccg aagttgctaa tcggtgctta aagacctatc ttaggtgctt 180
tgctggccct aagcccaaga cttggtttga atgggtgcat tgggctgagt tctggtttta 240

cagtaactac aatatctttg ctggaatgac acctttttaa cctttatatg gacgagatcc 300
 tccattgttg attaagagct gcaccattcc atcaaagttg gatgatgtaa atcagttggc 360
 ccaacaacga gatgat 376

<210> 5048
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 5048

agctcgctta gtagatgttt atcggaagg aaaatattca ctttatttat gaagttgtac 60
 aaattcataa tatttaattt attgtattat gtaacactgt atattatttc atgattgtac 120
 atttttagct tgtggaattt tgtttctgtg tcaagtttta gatgtttcat tcttttgta 180
 cgtgttgtga atggaatgca tttaaagtat tctcttttat ttggtaaaat ctctcaaaag 240
 actataaaaa ttggtcataa ctaagagagt atttgtgcta ttacaagatt caagaaggga 300
 aaaaaattat ttcaaatttc a 321

<210> 5049
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 5049

ctacagttgg atgcctcgct aagtgatgc atctcttaac caatctgcct cgctaagcga 60
 gtcattaaca acttttacct tctcttcttt ggcgtgaaat tgagttggat tcaacattaa 120
 ggcacaaaaa ttgagtttct actctataaa atcacacaat aaagaaaata tgtaccatct 180
 ctacaaaaag aaccataaat aggaggcata ttgctatatt cttgcaaatt tccaatacca 240
 aactaactca tggatgatgc aatcctaccc cccaagggtta ttggat 286

<210> 5050
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 5050

tccttgagaa gattcctaaa gaagctagag tttagctaca cacacctctc taatagctaa 60

gctcaccttc ttgaaatgag aagctagagc atagctacac acacctctct aatagctaag 120
ctcacctcct tgagataaga agctagagct tagctacaca ccccttataa tagctaagct 180
cacccecatg ccaaaatata tgaaaatata aaaaaaaagt ccctactata aagactactc 240
aaaatgccct gaaatacaag gctaaaaccc tatactacta gaatggccaa aatacaaggc 300
ccaaaaaaaa ggaaaaacct attctaattg ggctcataaa tctaccttga ggttcatgag 360
aacgc 365

<210> 5051
<211> 341
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5051

aacatccaag caaaacaacg ttctaacagc acaagctatc acagccaagc aaaacagagc 60
aaaggccgaa aactctgctc aacacatcaa ccaaaatcac agcttttctc acgtaaagac 120
cacagtaaca attccttcga tccaattcgt taaccggtgg atcgactcca aaattttact 180
ggaagtctat agtgataag cctgcatttt gaccgttggg atatactagc aaacatccag 240
aactcattct gcactagact ttccacagcc aaccacacac aagcatnttt ctgcacttgt 300
gcaaaattct gctgcacaat ttcacagcaa aaactctgca t 341

<210> 5052
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5052

gaagaagaag aagttcagag agattcaagg cttgtaaagg attgtaagag attgattgaa 60
aagtattcaa gattgaatga atgtaaaagt gtaaaacaaa gccttgcttt tatagactcc 120
tcatgtctgg tcaagaatac cttttagaag agttataact tttagaaaaa cttaaaacca 180
atttgaaaaa gtcaaaaacc ttttaaagag ttacatcttt tgatttattc agaaacagtc 240
actggtaatc gattaccaa tcagtctaatt tgattacaca aggcttttta tgtgaaagga 300
tgtgattctt cacatngaa tntgaatttc aacgttcaaa ggcactttga atcaattacc 360

aaaacactgt aatcgattac aac

383

<210> 5053
<211> 325
<212> DNA
<213> Glycine max

<400> 5053

agcttctatg gatgttggat ctttgagctt taatggggtc cttcaatggt gtattttagc 60
catggagttg tagtggaaga taaaaggaga agaagtgaga ataggcacca tccactaggg 120
aataagccat ggaagaagaa acttcaccac caagagagtg tcttggataa gaagcttaaa 180
gaggaagctt caatggagga agagaatgag agagaaagag aaagagaaaa agtggcatgg 240
gaatgaatga aaaacaggga gagaagatga actttgaagt tttctctcaa gattctcatt 300
catcaaagtt gccacaagtg ttaca 325

<210> 5054
<211> 267
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5054

tgaggagaag ctctgactcc atttgaccct ataaataaaa acatatgggt gagtctttnt 60
ggtttgccaa tcaaaataca aaaaaaaaaac taaacataag ttaaaacaca ctagactagc 120
aaccactacg atgtggttat ctatcgaatc tcatatgcat ttctaagggtg tcaccttttc 180
actaattcaa catatatgtt tatatatgac attggtaagc taccactgga actcccagaa 240
cttagtagtc ttacgaaact ttagttt 267

<210> 5055
<211> 349
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5055

agcttgcttc anagatgtcc aagaaggata atgcggccga agggactagt tccgctcttg 60
agtatgacag tcaccgcttt aggagcgctg tacaccagta gcgcttcgag gccatcaagg 120

gatggtcgtt tcgacgggag cgacgcgtcc aactcatgga cgacgagtat actgatttcc 180
aggaggagat agggcaccgg cgggtggacat cactgggttac ccccatggcc aagttcgatc 240
cagaaatagt ccttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300
tgaggtcctg ggtaaggggt cagtggatcc cgtttgatgc cgaccctat 349

<210> 5056
<211> 314
<212> DNA
<213> Glycine max

<400> 5056

tcaacctaga ggagacgaac cattccaagt gttggagaag atcaacgaca atgcctacaa 60
gattgacttg cctagtgagt ataatgtaag tgccactttc aatgtgtctg atctatctct 120
ttttgatgca gatggaggag ccttggattt gaggacaaat ccttttcaag gagggagtga 180
tgaggacata accaatggca aggaccatga agcacttgaa ggtcccatga ccagaggcag 240
acttaaacia gcccaacaca ttatagagaa caggctggtc atttgatag ctgtcattga 300
tgatgattga aggc 314

<210> 5057
<211> 279
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5057

agcttgaatg tcttctgatg acgaaagtaa atactctgta aaatttcaaa ataatcataa 60
tcgaacgacc aacatcatcc tgataccatc gaccttcttc gccctgggtg acgaaaggta 120
cggataacca taaagtattc cccgcatgtc atcgaactcg ttgtctctgg atgacaaaag 180
gtgcagaaga cgacgttagt ctctgcgtat caaccggctc gtttgctct gngtgacaaa 240
ggtgcgata accataaggt accccccct gccacttga 279

<210> 5058
<211> 120
<212> DNA
<213> Glycine max

<400> 5058

tgagatgagg aagtgttgaa ggggtgatact tcttgctttt attgttgacc acagagtggg 60
acctggagat atgtcgcggg ggtcacgaga cctctgtgac gtcttgtttg gtgcttttgg 120

<210> 5059

<211> 330

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5059

agcttcctgc aaccattagc actccatntn ttatgnttat tcagtaaacc aattgagtca 60
tcaactgcaa ctaaactctc acaccaatca tatgaaagtt tctttcaatt tgggagatca 120
gatacattat gtatctgtgt taaaaaatcg cactgggtcaa aattcaaaac tcttagatgc 180
cagaactttc tgcaaggaaa aaaaaaaaaag aagatgacat cagaaccata tgaataaact 240
ttaagtgaat ttaataattc atgggatgag gatatctgtc atgtaactcg ccttggatga 300
gcgatggaac tcacatgaca taatggaact 330

<210> 5060

<211> 290

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5060

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ttcaatatat ttattctttt gctgctacgt tggtatgcta ttttttttcc aatgtattta 120
cttacgtaat tgtgttcaaa acagaagtag aagtaactat ttcattatct ttatgatatt 180
tgtttgctga gtagagctaa atatttcatt ctttctgaga gtttttttct ctcttctggg 240
atagatatct ttgtactcac cttagttgat gcagtgaatg atctataatt 290

<210> 5061

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5061

agcttgtaag ttacaaaata gagaaattct atagaaataa aatgcatcct tttgtattta 60
atcattttat tagattatgt aactactacc aactaacttt aattaaaata agttttattc 120
tctttatata tattcctcat cctatatcac cacttatttt cttagtattt aatgggttcta 180
aagaataatt gttcttgaca aatattatgg aaaacaataa gtgcttcaat tctttcacia 240
attaggaaat gaaagttagg aattttttta gggttcaaca gcaacaccaa aggtagggaac 300
cacgatataa gggcagttcc atttgattnt gatctcagat tttgtttaca aaaaccaact 360
tgaaaatcta aacataaaat attaaagaac ttgcagacat atcccagcta gctgggaata 420
ca 422

<210> 5062
<211> 347
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5062

tggaggacaa aacanagtag tgtacaagta cttggtgcta tggcataccg tgctcctcag 60
catttgtctc ggtgtctccc taagattggt ccaaaattgg ctgaggtata atatgaagca 120
aacattattt ttcacttcta aattcctttt aagctataga ttgcattacc ttaacccatc 180
tcagtatttg aagggtttga ctgataaaga gtccagaaat atctggtctt gtccctactc 240
tacttaagta aattggtggt ttcagtatct agaggaggga ataanagtaa ttctttngaa 300
attatggcat anaaaatcat cattcaattc cactctactt ttatatg 347

<210> 5063
<211> 280
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5063

agctntgtcg gattggtctt cgccagtgaa aggatcgatg tgggtctgaa aagtggcaaa 60
tttagtcac cgtcttgac gaatgagaaa attgtggcaa atgaagaggg tgaggatgaa 120
gtataagccc atgctgtgac tgccattcct atatggccaa gtatcccacc aaccaacaa 180
tgtcattact cagccaataa caaaccttct ccttaccac cgcccagtta tccacaaagg 240

caatccctaa ataaccacaa aatgtattgt ctaaagatgg

280

<210> 5064
<211> 306
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5064

tatatactct aatgtacaga ttataaagca agttccactt gatatatgca tganaaacia 60
agataataga aattaaact aggttgctc ccaggaagca cttctttaac atcattagct 120
tgacgcattt acctcaatgg gtgatatcat gttttggttc ttacctccag aacctcttga 180
cccacttcca ttacctgtaa gcaaacattt tgttctagag caggcttgct ttcaacaaac 240
aaatcaaaat caattttctg atcttcgaaa ccattttcca gtttctttct acccatatca 300
actatg 306

<210> 5065
<211> 287
<212> DNA
<213> Glycine max

<400> 5065

ttgagaaaac tcaactttca taactttgga ctcaaagtc tgattacgga ccataatata 60
tcaagacgct aaaaattgaa cacggaagct cgggccaat tcaaactggc ataacttttg 120
acttagatgt ctgattgtgg accatattcc aactgccatg attggtgatt ctgatgtttg 180
actacggccc ataatatatc aagactcttg aaattgatta caaaagctcc tcacaaatta 240
aactaccata acttttgatt ggatgtctga ttgtggccga taatata 287

<210> 5066
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5066

tgtaggcatt agaagagaat gcacatatga ttagaagtat gactgaaaat gttagttagt 60
tgtaagattg attgtgaagg aatgcattaa ctgtatcccc gtgagagtgt gatccttana 120

<210> 5069
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 5069

tttttattct tacactgtgg tctttacaaa catggcttta taaagactac aacaatctta 60
 acaagaggggt tatcataatg ctaacttggt tttctcaatt aggggtgcaa aagtctccac 120
 gaaagtactt gggttctctt taataatacc tccagatagg cgtttaaaaa tccaagcggt 180
 tctttatgaa gggaataatt attcgatact aacatctttt ctttcaactg ggtggctcctt 240
 tgggttgaac catacaaaca ttgtttgttc aatgttcgga acaaaaaaatt gttgaataaa 300
 taagcggttg gagggatcgg ttacatttc acactcttat aaccgctggt tcgtatattg 360
 gtacaaactt ttgtggtggt aaggaaaatg taaacaacaa tcttggtgc g 411

<210> 5070
 <211> 364
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5070

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 atttgtattt tttatgggtg attgtgtttt tacatggagt tctaagaagc aaggcattgt 120
 gacactttct acttaatagg accttcataa ctcttcagat gagaagaaga gaaactatat 180
 gtgatggctg gtatattgga gatcatagtc ttcttatagg gtgttaacct aataggattc 240
 tcattactct ctaataggcc aacctgaca tctgctcgtt taagtccata tcatttgatt 300
 ttgtttttga ttgtctaacg gaggatcatt tatttgatca ataagataaa ctcataatga 360
 taat 364

<210> 5071
 <211> 451
 <212> DNA
 <213> Glycine max

<400> 5071

ctgcaagctt ggatattgta atgttttctt actaattgtg gttatttgat tttggtatta 60
 atttctttta taataaactc actcctcgca attttgtacc gtgtgggttac tgtgaagatt 120
 gccaaccttt gttcgtggga gtagaatgac aatagtagag tacaagaagt gagattcttt 180
 tgtgaaaccg ctgaaccgac gtgatgacgt tggattattt tggaagagag ttgtgttttg 240
 ttaatcaatt cctccatagt tggttccatg attcttttta ttgacttaaa gatgtaaadc 300
 acaaatttaa ttatatgtat gaacaaattt actttctatt atgtgaatga tatgtactga 360
 gttactatac ctatatatat atatatatat atatatatat atattcactt 420
 aagtaatgat gcgttggttg tgaatgtata t 451

<210> 5072
 <211> 239
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5072

ntcccttcat ttcnaaattt annaaattgt ctcttttggt ttcttccatt tcatcagaac 60
 aacaagctag tgagggaacc ctgttccaac aataaaccat gtatttcatg tcagcataaa 120
 aaaagaatcc aaatccacaa acttctgcat aacttgtcat gactcaaagc agcaataagg 180
 cagcttaatg agacaatatt caaccattat attatatcaa ttggaacgcg gagggggggg 239

<210> 5073
 <211> 512
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5073

cgcatgtnt agtttgaaat cgtctcgtag cttggatcct tagagtcacc tgcngctgca 60
 gcttgtctag cgtttatgcy agacagagac caacatgtta actatcatcg cccaatacga 120
 agaagaatta tgtctagcca cggtccacca acataaaaatc gcggatgaat atgctcaagt 180
 atatgccgaa aaaaaggcta gaagaagggt gatccactct ttacaccaag aggcaaccat 240
 gtggatggat cggtttgctc ttaccttgaa tgggagtcac gaacttcccc gattgttaac 300
 aaaggccaaa gcgatggcag acacctactc caccctcgaa gagattcatg ggcttctcgg 360

ctattgtcag catatgatag acttaatggc ccacataatt agaaatcggtt aggaaacttg 420
 tatgggtctct cagaccttga ctggatacga cttttttttt tttttttttt tttttttttt 480
 tgaaaaaaat gagatggccc attgttctac cn 512

<210> 5074
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5074

nggcttagca catgaagaga tggcgcttag cgcaaggttt gcgctntgcy gataagcaat 60
 ttgaaaattt tctaagtcac tttctactta tctcttcaca cataatttta acaacccttt 120
 ntgttcatta ctaaacaagc tgaaatcaat cacaatcaca agcaagatga cctaactaca 180
 tgcaagaaat aaaaatgaag atagagaagg gaaagaaaag ctggggttgcc tcccagtaag 240
 cgcttcttta acgtcattag cttgatgcat catcctatta tctaggatcc aataatgttc 300
 ccacttcaag gaccttcttc ttaggttntc tttcctcctt cacatgaact ntanaataga 360
 cattccggtc aggtggctct ntatcttcat gaaataaatc anagctgatt ttctaattctt 420
 ctatgcccac ntgcaacatc ttctttccca tatctactac acag 464

<210> 5075
 <211> 323
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5075

agcttgccgc ccagctcgcc caggcgagca aggttgcttc ctccagaagg aacggcccaa 60
 gtgggcctgg ttgctattta caccocccatt tttactaaat gcacccctt tctatttttt 120
 tgtaattctt tttccgtaac gttacgaaac tttacgaatt ccgtaacgat acttattttt 180
 cttctgcaag gttatgaatc cttacggatt atgtatttac tctnttttag ctntcgaaga 240
 agttacggaa acccccgat tgcgcaaaaa cacctctttt cgacttccgc cacattacgg 300
 aatttcacgg atcgcgcaag cct 323

<210> 5076

<211> 424
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5076

aaagttaact anatgccttg tgttacctgg ttaccaact ggccatgaat taaaaatatg 60
 cacctgtcgt cagactctgt agtttatgct cctctaccga ccaccacaca gacctttgtc 120
 cttttgtgca acaatctgaa gcaattgaac agcctaaagc ttatgctgca aacatctaca 180
 atagacctcc tcaacctcag cagcaaaatc agccaccaca gaacaactat gaccttctcc 240
 gcacacgtac aatccagggg aggaggaata ttccaccgta gaagtcgaag ccttctctaca 300
 accgccataa aaccacaacc ttattttata atgtactggg ccagcagaca taagatcttc 360
 gctatctttt actcacagcg gaatcgccct ataacgaaat cttgacgctc cgcccacctc 420
 actg 424

<210> 5077
 <211> 352
 <212> DNA
 <213> Glycine max
 <400> 5077

agcttatggg agttaactct ttcactgtgg cctcgacata caagctttta gaaggactac 60
 aacaatctga acaagagggt cagcagagtg caaacttggt ttccaaattc tgggtgtgcaa 120
 aagttccaac gaaagtactt gttttctctt ggaaattact ccaagatagg cttccaacag 180
 cacaagcgct ctagaggagg ggagttatta ttcaagacta caatttttca tgcaaactgt 240
 gtggccttga ggtggaaacc aacaatcatt tgttcttact atgtccggtg attaacagat 300
 tgtgggaaag agttatggca tgggtgggaa tggattacaa atcccaatca ta 352

<210> 5078
 <211> 272
 <212> DNA
 <213> Glycine max
 <400> 5078

tggatttcct tttagtaggg aatctatcct tcctaagatg gagccaaacc cagtcaccct 60
 tattaagaac tagctctttt attcctttat tgcccttagt tgaatacacc tttgtttggt 120

tctctatttg gttcttaacc ctctcatgca acttctttac aaactctgac ctagattccc 180
 cttctttatg tataaaagaa gtgtctagtg ggaggggaat gtgtctagtg ggaggggaat 240
 gatggctaac tgcgacatcc tggacatttc ta 272

<210> 5079
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5079

agctntggca cttgtcttca cactaatttt gaattgaaat ttccaattat agaaataaat 60
 ttgagccaaa acaacaagca cctttccctt tcaccttttt tttctggata ctgattttcc 120
 tgccaacatg tgcgattttt cgtatttttt ccttttatcc aaatcacttg tttctttttt 180
 tataactttt ttccagatgt ctagaaaatt cagtaaaaat ttcagctcan aattcgaggt 240
 aaccaattct cagtaattnt tacaagtttg tatgtccaag ctgccagcac cagcgatttg 300
 tttctttaaa catggatatat ngattgcctt gggcttactt tcaaccttcc tatgtatgtt 360
 gaactcacta gtattgttta ccacagnttt aggggtgttca atattcact 409

<210> 5080
 <211> 258
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5080

tgccacccag ctgcgccagg cgagcaaggt tgcttctctc agaagcaaca gccttctgga 60
 ggaaggatct ggaaggccca agtggggccag attgttattt gcacctctcc tttntactaa 120
 atgcaccccc cttctatttt tttggtaatt ctttttccgt aacgttacga aactttacga 180
 atntcgtaat gatacttatt ntccttccgc aagggtacga atccttancg gatatgtatt 240
 tactcttttt tagctttt 258

<210> 5081
 <211> 263
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 5081

tggggccaaa cacaccaa at gattataatg atggatggct caaattctca caaaggtaaa 60
atcattactt tcaaaactat catgacatgt agagaaaaat caaggatttt cagtcacaaa 120
atgtcaagaa cttttatttt tcaaacaatt acccatttat ttcttgaaca tattctataa 180
ttcaaagaan aacatgcaaa gtcgtgctg cacacgaaat tgacccaaaa tattaaactt 240
aanatccgac gaaactaaca aca 263

<210> 5082
<211> 356
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5082

tgtgtcacac tttcaattgt cgaagctgaa tacatagctg caagaagttg ttgtgctcaa 60
agtctttgga tgaagcaaca atgatgtaag ctccattgga gctttaggc ctaggatctt 120
cttcatcaat ggattccttt gcttcttgga agatgaatgg cagcggaatg gagaaaggaa 180
gagagagagg agacgccact tcaaggagaa gatgagtcta gaagaagctc accaccatag 240
gaggccatgg ataagagctn ggaggaagaa agagatgaat gaaggagag ggagagaaga 300
agcacgaaat ttgtgctcta aatgagcttt gagatccgaa gtntaatatt caaatg 356

<210> 5083
<211> 214
<212> DNA
<213> Glycine max

<400> 5083

atatccctca atttatctca ttttacatgg tatcaccaga gaaaatatga ggctaagctg 60
aataaatgga accacagaaa catttcgatg gctgggagga tcaactta at caatgctgtc 120
ctaacagcat tgcccttggt ctatttggtt ttcttcaggg cccctataac agtgattaat 180
agattaattg ccatccaaag gcactttctt tggg 214

<210> 5084
<211> 329

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5084

taccctagat gacactcatt gtacaaccaa gttcataact tagtcacttt taaagtcctg 60
ctgactgagt acaaagtgac ttgcaaccgt ttggtgagtt attaagcact cacttgtatg 120
tcaaattnta aaatcatata catatcta atgaatttca tgttaattac aggatgtgcc 180
gagtacctgt actcatttat gaaagctgta agattcaccc atatgaactt gaaagagact 240
acgaagtata ggataattta taatcattgt aggaagattg caaacattgg aaatggatgg 300
aggaatttca taatcacaaa attttctta 329

<210> 5085
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5085

agcttgttgt cattaaatct tacatgaatg gccttttcta cagtcaaggt tctggagtta 60
tgcactctgt atgccttga caattcaaag tattcaagta agattctaga atcacactag 120
gagtcaaact ttccaagttt atccttggtg tttaagatga aacgctgaca tccaaatgag 180
tggaagtaag agatattggg cttacgtctc ttccataatt catagggact tctttaagat 240
aggccttatg taaattttgt tctataaata ccaggaaaca tttacagctt caaccataa 300
atctttggga gttgagtgat cgttaagcat tggtcatgcc atttctgaa gagatatnt 360
tttctctca acaacttcat tctgttgtgc tggtcttga gtgggaaaaa tatg 414

<210> 5086
<211> 311
<212> DNA
<213> Glycine max

<400> 5086

tggtgtgtcg tccccgttc tgcctaaacc catttctggc tcatatccat cccttaacat 60
aaccgagcc accatcaaag cgacaccaga taagcgtggc tgcaccagaa gagattccac 120
atatgcaatg ctcaaat tccaatgctg gaaggatgtt tccaatgact catctacagc 180

[illegible]

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<223>      unsure at all n locations
<400>      5087
```

agctnttaca	atatccaaac	aattcaatth	tctttgtcat	gaaaccaccc	taaaccaaga	60
aaaatagagt	ggaggccgaa	aactctacac	aaaactcatt	tcaattccac	agtttttctt	120
actcacatac	ctcaataaca	gtctctttgt	ttcgaatcgt	caaccattgg	atcgcttga	180
aaatttaact	gagagttcct	aatatagaaa	tttagttttg	accgttgggg	tctgctagaa	240
aatatataga	acaccagatg	tactaccttt	cccgtgacta	gtgttgcaca	accattttttc	300
tgcataaattg	gaaaatctgt	tgacaacttg	aagcttt			337

```
<223>      unsure at all n locations
<400>      5088
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ntccaagagt	tttctggttt	tctaaacctt	gaaaacttgt	gctattcatt	cttttcaact	60
cttctccctt	tgccaaaaag	aattcgccaa	ggactaaccg	cctgaattct	ttttgtgtct	120
ctcttctccc	ttttccaaaa	gaacaaagga	ctaaccgcct	gaattctttt	gtgtctccct	180
tctcccttgt	caaagaattc	aaaatgacac	agtctgagaa	ttcttttgat	tcttcccttt	240
cccttataca	aaagatttca	naggactaat	tgccagagaa	ttcttttgta	tccccattca	300
caaagtttca	aaggtttaac	cacttgagat	ctttgtctta	acacatt		347

<210>	5089
<211>	401
<212>	DNA
<213>	Glycine max

<223> unsure at all n locations
<400> 5089

gaagtgaat aattgattat gaaatgccga acaaagaaag aattgaatga gttaattgat 60
taccgaattt gcttatcgat taaaattggg aaaactatta atacctttgc ttattctcac 120
tacaagaaaa aatgatttta acgaggggta ttttttgcct taaggagggg ttaaaccctc 180
cgaaagtatg gtacctattg gtggtgttct cattggcaaa acatccacga taaatgggtt 240
accaatgggt tttgtgaacc ctttaaaaca caagaaatac ttgatgtgtt gaaacccttg 300
gtaaatacca aggggtatta acccctatta acaccacaat cattgctggc gatttaaaac 360
ccttggttct atanggggtt aaattgccgt atacatttat t 401

<210> 5090
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5090

tcaataataa catagaattc ccaagtatat gtagatagtt tctgcattct accagacaat 60
tttttttttag aaataagcaa taggatgctt gttttggctt aacacaacac caactcccct 120
ccctgaagca tcagtttcta atacaaaaag tttattgaaa ttaggaatag ccaagacagg 180
tgcagaagtc atggctatct taagtttttg gaaagcctgg gcagtagctt gaccccat 240
gaaagagtcc ttcttcaata gaacagtcag aggtgttgca atggtagcat aggtcttaac 300
aaatcttcta taataacctg taagtcctag gaagcccctt aatntcttta gattcat 357

<210> 5091
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5091

gatcctctta gtcacctgcg gcatgcagct tgctgaatac attctncccc tctgtctatt 60
ctaattctnn ttatatcatc aaaacctgca tgatttacat tctccccctc tgtgatgatg 120
acaagcatta tccaaggctt gatctntttg acatcatcaa aatcttcatg atttacattc 180

<400> 5092

<210>	5093
<211>	423
<212>	DNA
<213>	Glycine max

agctntacga tagtttactg aatcattatt ttatggaact agttaacgta ttgggttaat	60
catgtttcaa taggtattac ttaagtacta ttatttctaat tttaatatataa tacgcaatat	120
ctagtgaaat atatgcatgt ctgaacctat ttctgggtcca actaaagctt aattaatact	180
tcggttaataa aatgtttaat actattatga cttatcttta taaaaaagac tgacaataat	240
attattttaa aaaactaatt atttggtact gcgtcaccca atattgatta aacttattaa	300
acacaactca cgcactttat tatatcgat gatatgagat gtgctacaag acaaaaatat	360
caaacaatth cctctgatgc ttacatatgt aatgattctt cacatgctgt ctatgctatt	420

gat

423

<210> 5094
<211> 307
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5094

agcttctatg agaagtttct caagacagct ttcttaggaa gctacctaata ctataggtag 60
aagcatgtgt aacacttggt gtaactctga tgaatgagag tcttgtgaga catattgcaa 120
agttccactg ctctacctct tttattcctt caatntcgtg ctccccctc tctccttctc 180
tcctcttttc ttttctcca ttgaagcacc ctctccaagc ttcttatccc aggccactc 240
ttgtagagaa tcttcatctt ccattggtta ttccctaggg gatggcgctt cctctcacct 300
cttctcc 307

<210> 5095
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5095

agcttataaa tataacaaac taatttatct tttataaana atacttcaag ataaatctgt 60
atttcaacct aacaaaataa cttacaaaaa atgtgtgata ctacagaaat tttgaaaacc 120
acctaacaaa ataacttaaa aaaatatgtg atcttccaaa accacctaac aaaataactt 180
acaaaaataa atgatatccc agaaattatc taaccacga aagctacaac gaaagcaagt 240
gcagcagcca aaacagctga aaaatatggt gaaggagggc tgtatttaaa gatcctaaaa 300
cgccaacctc atttgcgcca ttttctactc taaaacgcta acatgatttg acctccagac 360
ccctaagacg ccaacattga aagctgctcc tgctttccaa agcta 405

<210> 5096
<211> 347
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 5096

agcttgcatg tgcattgctga ggggacatgc atagtacaat tggcttaagt gaccacacgc 60
taagcctgca aatgcgcgct taacgcacat ccacgataaa tctgacttcc agcttggtt 120
cttgactaa gcatgactg ggcgcgtgag tgtgctgctc caattcttca tacatcttcc 180
attcttctgt tgatgcatct aaaaattcta canaataaaa canaacattg tanangtacc 240
aactntagca ttcttaagat aagaactcaa agaaaatcta aattcctatc ttttttagtc 300
aaaagaagta tcaaaagaga agaaattaga taatttctat ttgtatt 347

<210> 5097

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5097

agcttaatan atctatatat gatttanagc aagtctccca tcagtggtag ctttaagtttc 60
atgggctaaa ttctcattt ggttntgatg aaaaccccat ggatcaatgc atataccaca 120
aggtaagtgg gagtaaaata tattctctta ttttatatgt agatgatatt ttacttacag 180
ccaatgatca agttttgcta cataagggtga aacaatttct ctccaagaat tttgacgtga 240
aggatatggg tgatgcatct tatgttatcg gcattaagat tcatagagat tgtagaagca 300
ngcttcatga tgatgaatca agtagttttg atgatgacaa aaagcccaca agaattgatgt 360
caagattgag tcaacaagtt caagatcaa 389

<210> 5098

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5098

ggatcttaag cacctgggct gcagctataa aacaaaatgc ctnatcattt tcaatatgca 60
tgtgaattan gaagcatgaa caagaattaa gccaggcta ttgtgcaagc aatcaatggg 120
gcaaaacaca ccaaaagatt atgatgatgg atgggtcaca ttctcacaaa ggtaagctta 180
tcactttcaa attgagcttt caaaactatc atgacatgta gaggaaaaac aaggatttca 240

aatcacacaa tgtcaagaga cttttatttt cagaacaatt accanagctt gatttgtgag 300
 ttgatnttag ccttggtttc acttttgatt attagtcaat aattcaagga aactttcana 360
 gaaaacgnct gattggattt tcttgataaa tttatatttt ttc 403

<210> 5099
 <211> 321
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5099

gcttatgctg caatattaca atagacctcc tctacctcag cagcaaaatc aaccactgta 60
 gaacaattat gatctctcca gcaacagata caaccctgga tggaagaatc accctaattct 120
 cagatggctc agccctcaaa agcaacaaca acagcctgct ccttccttcc aaaatgttgt 180
 tggcccaagc agaccataca ttcctccacc aatccaacaa cagcaacagc ccctgaaaca 240
 gccaacagtt gaggtcctc cgcaaccttc cctcgaagaa cttgtgaggc anatgaccat 300
 gcagaacatg cagtttcaac a 321

<210> 5100
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5100

ttgtcagaat atgattatta aacacacaaa atggaagtac taagtattta ttacctatac 60
 ttaacataaa gtacttataa cactacaaac taaccataaa ttgtggaagt ttgatacaat 120
 ttacacaggt ttacacaca aaagttagtc gtattcctgt tgtatggctc cgctcctcc 180
 aacgaagtgt ggaaattcat catccctcag ctgcccttgt ctctgtgtga ggaatgacca 240
 tcttttgatg gcctcgaaac gctattgatg ttccacactc tgaaatcggt gtttgtcaaa 300
 gcctgtttcg acttgtgggg ccacatngga atcctcttca atgggtgcctg tgacatccct 360
 aaataatgac tgggtgtaata gtaataaatt aaata 395

<210> 5101
 <211> 445
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5101

ctgcagctta ttctttntac tcttgtgcc agtctttgat gccacatggt tgaattattg 60
acagcctccg taattgctac catatcctca tctacaatca tgtaaagaga tcttcacttt 120
tttccacgag ccccaacgag attgcctttt gttaccttcc aagctccatc tccaaaagtg 180
gtgtgatgcc cctcatcatc ctaccatcct atagatatta aatttttttt taaggcagga 240
atatgtctaa cattgtgcaa tgtccatagg gatccactag aggtcttgat gttgatatca 300
ctntttccaa caatgtcaag agattntcca tctgcaaggg aaactttccc aaatcttcca 360
gaaatatagt tagacaataa atctatagag ggagtagtgt ggaatgaggc acctaagtcc 420
attaatcatg aatcaacggg actat 445

<210> 5102

<211> 358

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5102

ggacagtggg agagctactt tgctaaaatc tcttataaag cgctgtata atcctgcatg 60
agtaagataa gatcgacact ctacacgca agaggggtaa tgcaattgtg aaataacaaa 120
aaattttgca ggatctactt caatgccctt attggaaata atgtggccta aaactatacc 180
ttgctcaacc ataaaatgac atttttcata atctagaaca aggttagttt cagtgcattc 240
attcaaaacc ttttccagac tatccagaca aatatcagaa gagtatccat atacagtga 300
atcatccata aacacctcta tgcaattttc tcaaaaatca ctatnaatac taatcatg 358

<210> 5103

<211> 305

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5103

agcttgtacc acatttcatt acatagagaa gacaaatagc aaactacacg ttagccaccc 60
atgaaaatgg agaagcaaca taactttcag ttaaatacca ctatttgcta gcttggctca 120

cttcctagaa tacattgaca aatacttta ttataagttg atttatttta tatagtaagt 180
tagcaaaaat gcttgaaatg gtgtaagggt gattaanagg agacaatgtg tcaataaaat 240
ttctaaatct agcttatctt ccactaaatt ttgggtgttg ccttggtaca atagaaagtc 300
gtaca 305

<210> 5104
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5104

agcttccttn taatgcatca caccacgtgt gccanattac tttccaagtg atggacataa 60
atcctgccta cagctgctta ttaggttggc cttgaattca ttcgggtggg gtgctccctt 120
caatgctaca caaaagttg aaatttatgg tggaaggga attgattatt gtctctgggg 180
aagaagacat tcttgtagt tgccttctt ctacgccta tgtggaggcc acgaaggagt 240
ccttggaat gtcctttcaa gcattagaag tggtagcaa tgcttacatg gagtctctct 300
cggtacaacc atgctcatct ggtgccatat tgatggtagc tcgggtgatg ttgggtcatg 360
gatatgagcc tgaaatgggt ttc 383

<210> 5105
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5105

agcttgatgt cattcanaag acactatgtc gacctanatg acgactaaac atgcattntt 60
tatgtaattg tattcattat gcgatataat ttgttgtaac caattactaa ccaattaata 120
ttattaagta ctggtttggg taagcaaaaa aattgttggg ccaacaaaaa tcatttacgc 180
gtgtagcata catcattgtc ataattgaca acacataatg acatgcatgc gtattaaagt 240
ttgagttgag gaccaacaaa gaactgctga aggtgttagt acaatctaac tactggaaaa 300
aatatggacc aatagaaatt ntagctgtct ttactaaata tggttgtaaa atcgaaaacg 360
atgtcattgg gaca 374

<210> 5106
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5106

agcttagatt tatcaagttt tttntgagt gtgggagggg gtagaatatc atccacacca 60
 ctcaatattc aagtgaaaag accaagagaa aagaanaagg aggcgaaaga acatttgagc 120
 ctcttaaaat tcttcaaatt agttagaaca tattgattag tgtttgaagg aaaaagttga 180
 gaattatgtc agcatcaaca taagttgaat gcctnctgat actgcatcaa ggatacttga 240
 caacagactt agaaccatac cacttaagct tcaactgttt ccataacatg agttaataat 300
 caagaaggta aattaagttg agtggtgaaa tgatgaaata gatagatacc tctactctat 360
 caaacatgtc atcaagtatc aaagggcttc cactgtaata tgcatacag 409

<210> 5107
 <211> 337
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5107

agctatagaa gatgttntgg cttttacatg cccaactcct ttgagtggca tttgtatcgg 60
 tgggttaactc tattgttgta tcttagtaca ttagatatct attntgcatt gtgcaccatc 120
 ataatgcatg tgtgtgtgaa gaaaattttc taagttagaa aaatttcttc aaaggaaaaa 180
 actntgtttt aatcgattat agaggtgttg taatcgatta caacaagcta tttgaagctt 240
 aaagaggttaa gtctcgatc ggtttaattg attacaatag tactttaatc gattaccact 300
 attgttgaga caatgactga ttntttcang agtctct 337

<210> 5108
 <211> 269
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5108

agcttgagat gaggaagtgt agaaggggtga aacttcctgc ttttattcgt tgaccacaga 60
 gtggtacctg gagatatgtc ngcggggtca ggagaccttg nggacgtcag gtgggggtgct 120
 atagcccaaa accaagcttg accaatcccg acccaacccg ggcatagtcg gtcagtgaga 180
 acctgtgatg tacctataca ggcgagctcc tggcagtcag cagataanag gaacaaagac 240
 caccagcaa ggagacttgt gtggtggct 269

<210> 5109
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 5109

agcttatcaa ggttgcttaa tatctccaac atatttactg caattaatcc ataatattta 60
 taattagctg acagtcggat catgctgata tatatcaata agttaaattt gatagtgata 120
 ctgttgata tattaaacta cattgagatt tggcaaaagc aaaaagctat taaacattgt 180
 cttgtgttg attctcattc aggaacagg tttcaacttc tgtacaaaac agaaatttct 240
 tacaataaaa gaagacggct tctgttcaaa attgcctcat ctgatctgtc tgtgtctcca 300
 ttagcatgat ttacaggtca ttcaagtgc acgtgacagt taggaactca tccttcttac 360
 at 362

<210> 5110
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5110

atctctgagt cacctgcggc atgcaagctt gctcgagata atagctcana cttaggaatc 60
 cagganagcc ccatctttaa agttctaatt aagggttagat taagaatttt aaatgcaa 120
 tacattatta taagtaatat tgaataccta attaaattat attttttaag gaacctaa 180
 aatctaatta gatttattct atttaatttt aattaatatt cattagttaa agttgatctt 240
 agttgattgg ataattaaaa ttagtttcaa gtgagaataa ggacttacat tntttgttta 300
 agttaaatac attctanatt actatgcttg gagaacctga aataactaat taatacatnt 360
 tttatgaatt aaatanacca cacttatant tctattaaat ttgagttaac tttttttaag 420

agaaatttga gttactaagt a

441

<210> 5111
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5111

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catacacttt accgacacat gaagagcctt gttgtgtcct ctcccctcta cggaatctc 120
ttcttcgcga nacgcgatat aattgttggg ggttatatga ttaacgatgc cttcaaaacc 180
ctccactgag atatcgtggg ctacatgggc atcattgagg acttttatca acagcgtacg 240
atgaggctcg aagtttatga gcagttcaag caacgagatc cttgctggag ttntattgag 300
ttgctcgact acctaaact cgctttgtta gatgaggcga angaactcat gngctcttc 360
caaagtcacc gtcttttctt gaagacctt ttctttcacc cctctaccac tggggatcta 420
ctt 423

<210> 5112
<211> 381
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5112

tctaacacct aattattcat acacaccctt agcaactatt ccaattntta ttagttaatg 60
tataattagg ctggtttgtc catcggatta tataacaaat tgacaaacga gggataaaca 120
ttaagttaaa taatattttc tcagattttt ttccaattaa tcttggtaga gaaatgttaa 180
taaattttctc actttccacc tagctcctat cctaccatag ttnttttttt cttttctgga 240
gttggtttgc tttttactga tatacttgcc ctaatattag acattgacac tcttgttttt 300
caaagcgata aagtatgtgc atgttaccca actacaagtg aaaaccaatc tcantgcaat 360
atgaatgaac taacatttcc t 381

<210> 5113
<211> 285

The figure consists of 18 gel electrophoresis panels arranged in two vertical columns of nine. Each panel shows multiple lanes with horizontal bands representing DNA fragments. The panels are labeled as follows:

- Panel 1 (top left):** Labeled "DNA". Lanes 1-4 show bands.
- Panel 2:** Labeled "DNA". Lanes 1-4 show bands.
- Panel 3:** Labeled "DNA". Lanes 1-4 show bands.
- Panel 4:** Labeled "DNA". Lanes 1-4 show bands.
- Panel 5:** Labeled "DNA". Lanes 1-4 show bands.
- Panel 6:** Labeled "DNA". Lanes 1-4 show bands.
- Panel 7:** Labeled "DNA". Lanes 1-4 show bands.
- Panel 8:** Labeled "DNA". Lanes 1-4 show bands.
- Panel 9 (bottom left):** Labeled "DNA". Lanes 1-4 show bands.
- Panel 10 (top right):** Labeled "RNA". Lanes 1-4 show bands.
- Panel 11:** Labeled "RNA". Lanes 1-4 show bands.
- Panel 12:** Labeled "RNA". Lanes 1-4 show bands.
- Panel 13:** Labeled "RNA". Lanes 1-4 show bands.
- Panel 14:** Labeled "RNA". Lanes 1-4 show bands.
- Panel 15:** Labeled "RNA". Lanes 1-4 show bands.
- Panel 16:** Labeled "RNA". Lanes 1-4 show bands.
- Panel 17:** Labeled "RNA". Lanes 1-4 show bands.
- Panel 18 (bottom right):** Labeled "RNA". Lanes 1-4 show bands.

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

gtgattctac aaacatccat gaacaacgct accgataatt gattgtatat ggattggatt 240
 ttcaaacatc catgaacaac gctactgata attgttatat acatactatt aatttaatta 300
 caaccacctg taacatgccc tccaacattc cctgatctat atacaanaat aattattcaa 360
 gcttaa 366

<210> 5116
 <211> 596
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5116

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 gtttgaccct gtgagcaccg tggatcctca tagacgacct ggcagcatgc cagctcogang 120
 aatatgggga ccccccatat gttggnacta cagcggcgaa cgggcagaag gagcaaactcg 180
 acgtttcagc atcacaaagc acgcatggac tcaccattca caaacggccc gacccacgtg 240
 ggctcacgaa ctaccacaaa cacatttcct cagatctttc aacaccgagg cccgatcgag 300
 acctgctagc atccacctca cttctgcact agcatacttc atcaccaagc tctatcataa 360
 actacaggac agggcagacg cacaaatgtc ttgcctgaca caaatcaaga ccacgacgtt 420
 cgtgactctc ataccgaag agcatgcgct tcgcaccaa tctgtcactg gtggaccgac 480
 tcaactgcttt aacggtgagc cccagtcct tatgattaca ctttgagccg ggggatcagg 540
 tcggaatgtg cccaaaacca atatgaacta ccgttttccg tgcagatgca tgaacg 596

<210> 5117
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5117

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 gaatgatttc aagattgagt caacacattc aagatcaaga ttaatttcaa gtttcatgag 120
 aagattcaag attcaagaaa agtttgattt taagattcaa gagaagatga attcacaatt 180
 caagggaaga aatcaagaag acttcataag ggaattattg ataagatttt tcaaaaaaca 240

aacatagcac agtttcgttt ttcaaaagag ttgttctcan aattttctaa gttaccagag 300
 tttttactct cttggtaatc gatatcaatt acctataatc gattaccaat ggccaagttt 360
 aattttcaaa acttttaact ggaatttgca cgtctcacat gtttcttaaa tgatgtaatc 420
 gattacaata tatt 434

<210> 5118
 <211> 301
 <212> DNA
 <213> Glycine max

<400> 5118

gcattatggt tcacagccaa tgtgtccac aattgacgaa aggaattggg tggagatgat 60
 atgaggtaaa caaaccacag ccacaggata ttgtataaca aagcaataaa taaaaactgc 120
 tacagaaata aaaatataac tttcaagaat aagcacagtt tatgtgtggt gttgcttaag 180
 ctacatgtca tatacaagta tggcatatca ttagaagatg gaaatacata ggaaaagggt 240
 gatctactga tgaatgtctt cctacaacct atgggttgca tcctacgaaa acacatgaat 300
 t 301

<210> 5119
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5119

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 gtcttttaat taatttacia gtgaattttc aatactaaag taatgggttca tactttctaa 120
 tctaacaact attntgatac attattattt tttattttac gaaaattaca aacaacaaag 180
 attaattaaa aattagaaga catataaaca agttgcatag aaaaataata cggtagattn 240
 tacaaaagtt taaactgttt gacacttctt atttactttc acacataaat acaacaaaaa 300
 tgtgtattat cttgaaaatg attacaagta tgacaactta acataagttg tctatcacat 360
 taatacaaat cggaatacct aagaagtata taagaaatga taaattaatt ttcacaagag 420
 ttcctctcag tgtcaccaca agca 444

<210> 5120
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5120

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 agaagttgga aggtattgga caagggaaga aagaattcag ggccgaagtt agcatcattg 120
 gaagcattca tcatcttcat ttggttaggc ttaggggatt ctgtgctgat ggaactcata 180
 ggctccttgc ttatgagtac ttgtctaag gctccttga taaatggata ttcaagaaaa 240
 acaaaggtga gtttctgttg gattgcgata ctangttcaa tatagctctg ggaacagcac 300
 aaggacttgc ttaccttcat gaagattgag actctaagat tgttcattgt gacatcaagc 360
 ccggaaaacg tgcttctgga tgaccacttc atgcgcatgg ttcggatttc gactggctaa 420
 ctcatg 426

<210> 5121
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5121

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 gcacgaaatt gaaggaagaa aaaggagag aggttgaact ctgatttgtg tctcacaaga 120
 ctctcattca tcaaagttac aacaagtgtt acacatgctt ctatttatag actaggttagc 180
 ttccttgaga agctttattg agaaaacttc cttgagaagc ttctttgaga aaacttcctt 240
 gagaagctag agcttagcta cacacacccc tctcataact aagctcacct ccttgagaag 300
 cttccttaag aatattcctt aagaagctag agcttagcta cacatacctc tctaatagct 360
 aagctcacct ncttgagatg agaagctaga gcttagctac acancccta taatagctaa 420
 gctcaccnc atg 433

<210> 5122
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5122

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 cagctggggt accaagttaa ccaatgcgtc cagtttgct tcaagcttct tagtttcaga 180
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 ggcaactaaac tgctaggagt tggaagccat cttctcaatt aaatttctgg cttcagcagg 300
 agtcatgtct ccaagggctc caccactggc agcatctatc atacttctct ccatattact 360
 gagtccttca taaaaatatt ggagaagacg ctgctccgaa atctgatggt gagagcaact 420
 ggcacatagt tntttatata tcttccaata ctcatac 457

<210> 5123
 <211> 359
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5123

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 tgaaagaatg agttcaagat gttcaagatt gaatcaagaa cactttcagg ctcaagagga 120
 aatttgattt ccagaatcaa gaatcaagat tccaggttca agcttccag aatcaagatc 180
 aagattccag actcaagatt caagaatcaa gataagtatg agcaagtttt tcacaaacta 240
 agtagcacat ggatgttttt caaacttggt accaaagagt tttacttctt ggaatcgata 300
 ccagatgatg tatcgattac tatagcaaat gttttgaaag attcactgat ttacacgtt 359

<210> 5124
 <211> 367
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5124

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 ttcaacgagt gcaaaaacca acttatttaa aatcaaatgt ggactatcgt ccaatgctag 120

taaaacagag ttttcaaaaa ggtcttcaag tgcagacttg tgcaacaaag tgtatcaaaa 180
tcaacacata agaataactaa tcaagtagct ttagagagaa gtagaaacac tgggatttat 240
accaattcac tcaacaaaag ctatgtctag ttttcctttg cacatcagta aagggttcta 300
ctaatacaaaa cttgaatata acaagcttat gtaccaaaaag cgagtatttt acagcctcta 360
ggcattg 367

<210> 5125
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5125

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taaaaacgct gccccgtctt cgtaaacga tggatcttct cgaaatttgg tcttcaactt 120
cacaagacac ttgtgcatga tctaacggat ctttgagaag atgtctggag tgtgctagaa 180
gcttcctgtt ccgagagcat ctcttattta agcatttcag cctttgcttt cgtgtagctt 240
aagaaaaacg tcatttcttc ttctttcttt cttccanagc catttctaaa gttccaagaa 300
ctttctccat caccacagc caccattagc caccacanat catcattggt ctccattgaa 360
naccacacc gagaggaacc cttcaccgaa cggaatctt 399

<210> 5126
<211> 350
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5126

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gaatatcgag acactcgtaa ttgaaaacgg aagttctgag aaaaatcaaa cgacaataag 120
ttttaactcg gatgtcctat tgagccctgt catatatcga gacgctcgta attgaagacc 180
gcagctctga caaaaatcaa acgactataa tctgtaactc ggatgtgcga tagagaccg 240
taatatatcc ggactctcat aattgaaaac taaagctctt aacaaatata aacgactata 300
caatcttgac tcggatgtcc gactgtgtcc cgcaagatat acagacgctc 350

<210> 5127
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5127

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 aattaatcca gggtagagg gattcggcaa gtaccaatnt gtctccacaa tggtaattc 120
 ctcaattgat aaaaatccaa attgagaaag atttaatcct ttttcttga aaattaaaat 180
 attttttatg agacaaggat acgaacatag aatcatgtaa ttgattttct ataaagcacc 240
 tatccccaat caactaaaaa tggctaaatc acttanaagg aagaattata tacgcaaaat 300
 atttggttaa atatattgaa aacttcaata aattttcaac tacatctctt tctttaacca 360
 caaccaacat aattgagtgg aatatcaaac anaggctgca caactttcac caactacatc 420
 aactcttttt acaacttctt ttccacttat attac 455

<210> 5128
 <211> 320
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5128

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 ggggaagaac ttcattgtatc atataaacac ccctttaata taaccgatat caaaatgaga 120
 taggtaacct tttcttttgt aaattcctat cttttgggcg ttgtagggga agccaaaact 180
 ccttcctacc acgtacttct aaacaacgga gccaacgctt atattaacaa aaaaatacta 240
 atatattaat attaaaaaat atgcttttta tcttcttgac tctgaagggt actagctagt 300
 attattcaat cacttacgaa 320

<210> 5129
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5129

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 agaaaaatct ccaatcacag gaaaaaagac tagacagaaa attcccaatc aaagaatggg 120
 agaaagaaaa aaagagaaat aaaaaagacg atagctcctg gtcaaagaaa ccagaagaaa 180
 tgtgtcggga ggtccttgga ccagacgata tctgaacaat gcagaattgt caccaaata 240
 acaaaagaaa gaaaaggaaa ccatgaccta caagtgggtct tctccctttg attaccaacc 300
 aaaatcctgt gcgctagcga ctntttcgcc ccgcactaaa caaaaataga aaaggaaaaa 360
 gcccaaccata aatcataagc caaaacacac aaaagctcaa aaaacccatc agaagagcgc 420
 attctcaaga gaagtcctat tgatccatga t 451

<210> 5130
 <211> 349
 <212> DNA
 <213> Glycine max

<400> 5130

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 gtgcagaatg aaattctatc aatacacctc caatctttac tggagagggc taccactact 120
 ggataacccg aatgcatatt tttattgatg caatagactt aagtcttcgc gaagccgtag 180
 aaaaatggcc atatataccc accacactaa taacaactac atcagatggc agtcatctc 240
 gtgaaagcat aacaatagaa caacctatac atacatgcc cgacatgat ataagatcat 300
 gtcactccat ctaaatecca cataataatc acatctgccc tggaatggt 349

<210> 5131
 <211> 604
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5131

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 nnncaatggc aaagaganat ggacctgta gnaccangcg acctctnaga cgacctgccg 120
 catgcaagct tggatcatta ttctgacaac taatcttatt ttattgcgta gaatactacc 180
 atacgatatg aatgcatcac agaacttggc caaaatatgc actatggatg tgactttgct 240

taaataacaa tttgaaagga tatgatattt atttcttaaa caataacgct gaatatccag 300
acgatcttct ttttaaaact aaaaaaatag caaaaatccc tccttgacat ttcgatgagg 360
catatntctc catcaaatecc ataataacaa atcatcaatt caannttgc catgggcatc 420
atgagtatat ntttacaacc tgtatatattt ctgcttgacg atgtgcataa caatattaag 480
actatgactt cgagaatcta attccttaaa gacaaccatg tgcgatatct ctctaagaat 540
gaccatcacg gattacgggtg aggaatgatt ctatatccac accacccacc taatttttcgt 600
aatt 604

<210> 5132
<211> 433
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 5132

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cgctcccaat gctaacaaca ttatagacat cggatatcgt actcggctcg ccatcatcgc 120
catggtcaaa aacgccagag gcaaattggcc agaatactcc gactacactg atctgaacac 180
ggcggggccct aaacatgaat acactctgct caacatccaa naactgtgga acgcatgcct 240
tccaagatca ctttggtgac gcccaagaat caccgcgcaa caagctccaa catcaagatc 300
acattcaaca ttcaggaaag ttccagactc agagtacgac tcaaagacga ctaaccacat 360
cacctcggag agcttcacaa catgaacaca aagagtattc gaaacaaaac cttaccacga 420
gggtacctct ggg 433

<210> 5133
<211> 559
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 5133

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agctttggct cgtgacgcaa cttaattacc gcggctgcag ccttacacgg atgaaacatg 120
acctattatg tccccacacc gactttgctc tcagacgtcg ctgtacgtcc acaaccacta 180

catcgatcat aacaggaccc ctcccttgaa tgtagaata caccgctcat gcgtatataa 240
 caacagacgg gatagataat gtatcgacta cgcacatgtc gaacaatctc gccgagatgg 300
 ggtccatatac aacgtcgagt taacgaaaac cagccgagg cgaggtagta ttcaacgcca 360
 ggtacgtcca acacacctng ttggtgggta tccttataac gaacgacgcg gcgccaccat 420
 caacgttgggt tgagaactcg tcacccctga ggtagcacac cgctgtgtg cttgaagtta 480
 accacagcac catgctccca tgtcgcagta aaaaactaaa accgggtcta aatgaccgag 540
 atgtacaatc cccctcccc 559

<210> 5134
 <211> 316
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5134

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 tattttgttt ttatagaaaa ttgatttaag cttatttga taatctcgcg ctaatacctt 120
 actttactaa acttagagcc aaattaagac tgtggtagac gacctttaat ttgatcaatt 180
 tcaagcgctt tgccttggt gtttttgaat aggatccata ttgacaaaa ggtctaaagn 240
 tgtcactaac aacatctatt cactcagtc tcttagtatg gtctatatat tttagggtgac 300
 taactatgat gcaagt 316

<210> 5135
 <211> 594
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5135

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 anancaacnc cntacgcccga gatgggatgt ggacccgatt gagcaccggy tgatnctcta 120
 nagacacact gcagggtgac atgcctntat atgagctgaa ccatttatct atttacacac 180
 tctgaagcgc tatccacaag actaagatta tcccttctat cttactgaga gtgattctcc 240
 taacttcctg agtgaatcaa gaacaccctg cctgatcaca tgacttcctt acccttgtgt 300

gggccctcgc tggaaagaat gatcctttgc ttcctatcat ctccaccctt gttctttcga 360
 accatcattc cagataatcc acctccgccc agaattatct tgcgaccata ctcccacttt 420
 cacgctcaac taacggattc ctgaccgtaa tataagtcac cacatgactt tcgctcggtc 480
 ggatcacgta tctggagccc tgaacatcgg tattgogtct atattctgcc agccaccctt 540
 acctccctt accagcccgat catccatggt nccacaacca cccattagac cacc 594

<210> 5136
 <211> 284
 <212> DNA
 <213> Glycine max

<400> 5136

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 tcatgttggt gttcagtgtc ccacaccctg tgtataacat ctcatatctt gcattggatt 120
 cgattaatga tacacaattt gtttattcga gaaaaaggct ccattccttca atttcatttt 180
 gogatatctg acagcaccgc aatttcgttc tgaaacggta actatcagct ccggtaccgt 240
 gttgttgcag atgatatttc cgttactgaa cgatttttat aacc 284

<210> 5137
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5137

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 atcgacatta ttgaattcat gttgcctagt cattctctag taggtgtccc taccatcttc 120
 tgggagagta gtgggctctc cttaaacttt gttgatggta tctctgtcat atttcacttg 180
 aactcttctc acctaaagaa ccttagtgat ctcatgttgc tttgttggcc aggaatttgc 240
 ataaaatcct ctaactatat cttcattgaa ttttgtttca agctctgcca gaattttcca 300
 tcttttcttt gtgatgctag cctgaaactc ttcattattgc catgtcttaa ggtctacttt 360
 ttctcacgga ttangcttct ggactctatt tctacatata ttttgtgggt ggattngtac 420
 atgaagcacc tccaatcc 438

<210> 5138
 <211> 178
 <212> DNA
 <213> Glycine max

<400> 5138

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 gagccattct agttttatact cattcttgaa tcataatcaa atatgacgat gttagtgaac 120
 atcaatcaac ttaattatat tccttgatct taagtttgag catttgtgtga gtaagtca 178

<210> 5139
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5139

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 tgtgacccat actcagtcac caaagtgaga aaaatctgac ctttgaaacg ctaaaatcct 120
 gcctcggttt gcgtgtcgtt tctctgattc cagttttctc gcatttctct gcgtccgccg 180
 gggccagttt tcgaaagcaa gcaatatata tatcacaacg ctcagaatga aacccccgagc 240
 gtggattaga ggggtggttc gttaaaattt aagtcgcacg cacaacgatg attttaacta 300
 attaattagg aattaacca taacctocca gttatggatt tcttctccta attagcctaa 360
 cagcatatc ttgccccgc taccctactt ctaccagaac atatangata tacactgata 420

<210> 5140
 <211> 346
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5140

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 ttagattgng agcttcatt tgaatttatg tgtgatgcct ccaattatgc acttggggat 120
 gttntgtcgt agagagttga tagactatca catgtcattg cttacgcctc accactctgg 180
 atgcaaccca agtcaactac accaccacg aanaagagct tttagctatt atttttgcat 240
 tagataaatt cagatcttat ttgtttgtc ctatattact atttgtactg accatgcagc 300

cttgagatac ttgttgaaga aacctaatgc taaacccaaa ttgatc

346

<210> 5141
<211> 392
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5141

aactggatgc attggtttac ttggaacca gctggccttg aatcagaaat ctgtacctgt 60
cgcaagggtt tgtggttggg gctcctctgc tgaccaccat acagaccttt gcccttccat 120
gcagcaacct ggagcaattg agcagcctga agcttatgct gcaaataattt acaatagacc 180
tcctcaacct cagcagcaaa atcaaccaca gcagagcaat tatgacctct ccagcaacag 240
atacaacctt ggatggagga atcaccctaa cctcagatgg tccagccctc agcaacaaca 300
acagcagcct gcttcttctt tcaaaatggg gctgggccag cagaccatac atntctccac 360
caatcaacaa cagcaacaac cccagaaaca ac 392

<210> 5142
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5142

agcttcanac agcttggttat aataaattac aatgagggtg taattgatta aaacagagag 60
tgtttgcttc tgaagaaant tttctaactn tgaaattttt cttcacacat actatgatga 120
tgcataatgc aaaacaaata tcaaatgcac taagatgcaa caaccaagat aaaaaccaat 180
acaaatgtca ctcaaggagg ttgggcatgt aaaagccaaa acttcttcaa aacctcttca 240
agcttttctt tgagcttcaa gctttaccct taggttggtc actatattgc ttatgttgcc 300
cccctatctc taachnaactt ggcacanaga cttggaaaac tcatattctt tgtgagcatg 360
tcaacaaggg aaacaaatca naacgtc 387

<210> 5143
<211> 523
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 5143

gatgtgaccc tatctgcccc agatctttaag tcaactgcggc tgcagcttan agtcctagtg 60
 natgaattgt gtgtgcttga attctggtga aaatgccaaag tatagcaaaa atgaatggtg 120
 caatcccaat tgtgtgatta aagagacaaa cacttgattg cactcgtgag tgagtgaaac 180
 acttgaataa tgaggagtgt ggtcttcttg catcaatgat gaatcgccat gctttgtgct 240
 ctcttttgat tttgagctag tgtatccttg ctatggtctc ctaaagagga catccctgtg 300
 aataattgaa gccttgttcc attcattatt ttttatagaa natacatgtg ttggatatcg 360
 taggatggaa tcgatctcaa ctcatgtcaa tggtttaatc ttagcactaa tagctctcat 420
 ttaacgatgt gtgtactttt gctcgaggac anaacaacgt ctaatattga cggagttgat 480
 atttgccaca atacttaact gagacatgtg attatgaaat tag 523

<210> 5144
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 5144

agcttgcttg agaagcttct atggaggctg gatctttgag cttcaatgag gaccttcaat 60
 ggtgattttc aaccatggag atgcagcggg agataaagga gaagtgggtga gaggaggcgc 120
 tatccactag ggaataagcc atgggaggag gaacttcacc accaagagag tgccttggtg 180
 aagaagctta tagaggaagc ttcagtggag gaaaaaatg agagagagag agaagggggg 240
 gcacgatatt gaaggagata aagagggaga gaagttgaac tttgaagtat gtctcacgag 300
 actctcattc atcaaagtta tgacaagtgt tacacatggt tctatttata gcttaggtca 360
 ctatataaat gacagcttcc ttgagaagct ggagcttaac tatacacacc ccctctaata 420
 gctaagc 427

<210> 5145
 <211> 301
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5145

aaggtgcttg gtgcattagt gagcccaaaa ggcatacta gccattcata caaaccaanac 360
 ttggtcttng aaagcagttt acactcatcn acccttttat cctga 405

<210> 5148
 <211> 446
 <212> DNA
 <213> Glycine max

<400> 5148

tgcaagcttt acatttaaag cccagaattt tacagctact tcatcgtgct cttgtaaagt 60
 gctgatttcc atgcagtgat tgaaaatcgg atgaaagatt ttttttctaa tcttatgttt 120
 gtaatgtgtg agacaaatat tacatagtac tgtaacaag aaattaccac tagggcattg 180
 atgttctaca ctgtaacagc atcatccatc attacattgg aatattggat agatcatacc 240
 ttgataattt aaatctgcta gagtgaaggc cgaatagttc cttgtgattt gcctggtaac 300
 ttggtatata tagttgcatg cattgtctaa cacatgactt gaattcaaca gatgttaact 360
 gtcttagcgg gaacttttct tggactccat attgcttcca tttcatatgt acctacaagg 420
 aggtcttcat aatctcataa ttttca 446

<210> 5149
 <211> 344
 <212> DNA
 <213> Glycine max

<400> 5149

tcattggagg taaagatata aacttttagat tagacgcatt ataaacgaaa aacaaagaag 60
 gaaagggttc atgatattaa taaacctgag gaaaaagcac ctggttagta cggataaaaa 120
 gagtagttgt agaaatgaga tataaaaagt gagggaagat catggtagag taattaacta 180
 aaccggccat cacaaattta gatgagagtg gtttgaagaa tgcagactgt aacaaattat 240
 tgggacttaa tttgaaagaa ggaagaagga gacaatcgtc gtctctttgt ccactactcc 300
 acctcagatt tttggacatg tctattttgā aactacttag taac 344

<210> 5150
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 5150

caggatatctt taccctacct cagccgcgc tctaatagacg atatacattat ttctggcgct 60
gaactgctca catttggaac ccatactttc tattatactc ctggcttcac cagattgac 120
tgtgtgcaa ggctccacca ctagtagaat ctatacact accctacata ttactgaatc 180
cttctacat atatgggata aactgctgct ataacatctg atggcgactg gcaacaggat 240
cttngtitta taatatatgc attattcata cccgctatct ccactagttag acattacata 300
tatatctttt tgatgggttg gtctgaaacc cgcaaatct tctagaatat ctatcacgtg 360
tcctatagt atggacctga acaggtgtac accgtctttg cgtcttaaag atgagagagc 420
ctccaacatc c 431

<210> 5151
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5151

agcttgtgta ttgatcgata ttgattggtt gatgtgatat tgtgtttgat ccatgagtat 60
gtgaatgatg tgcaaatgtg agacatgtag tgttgagata tgatgtcacg tgataagtgg 120
tggaatgaca tgagttatgt taatgtaagt tgtatttcat ttatatgata ggtatatcta 180
tgttgtctca tttctctcta ttagttagga atgtgataac tcactccatg tgtgttattt 240
gtgtttggat catgtgatga tatcgaactt tgtgttcatg ggagcagatg attcagtgga 300
tggctatgga gaacctcatg ctagaggacg ctagaacaca atgctctgat aggatgagac 360
atcggaacat anggttctat ctanattaca tgaagcccta gacatattag nttatcatt 419

<210> 5152
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5152

gcttgaggct tanacgtagt gtttgtgatg atatagagag aggggtggtag ggtaaagttt 60
tcaaaagatg aaagggttaa tgaagttcat gtggggggcg taataaaata ggggacaagt 120

tggtcgagtt gaattgacca aaatgggggtt cttgcatttc atgtgaaact acgagtttgt 180
 agtacgttct ctctggaagc cctcttgcta gtggaacaat ggaacctaata tcatatttga 240
 ttaccgattt tgccccctctc tgtcaatata aaactttggc acatgagatt gatagagaag 300
 ggcaacttga actctctctt ttggtcgtag agcttatggg atgaacatcg ttcttttaaag 360
 caaggtcatg acgtgggttc ataagcgta accttgattt acaatagcat gttataaaca 420
 ataacttata cacagaggat acacatat 448

<210> 5153
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5153

agctatgatt caattcattc aataacaatc cattaatcgg aattaataaa tttcaccaac 60
 attctgttat aaactcaagt caatcaggga ggcagcccca agcgcagtcc atcagtattc 120
 gcacaataga caaattaagc aaaacagtca atccccctaa cccagacttc ctttccttat 180
 gtgcaagctt actttcccca ttttaccctt tttttcatca ttgaaagttc actaaatctt 240
 gccaaacatt aactcttata tggaatgagg atgagttaat cttagaactt acaatagatg 300
 ccccanatca tccaaaccct gaatcaattc ttgatgtctc ggtatacaaa tatgatttgt 360
 cattcgcagt acagcattcc aatgccccct cctttctgat gcctgaatcc acaaccttgc 420
 tcaccaccat tccaattttc attanaacac tctacaaca 459

<210> 5154
 <211> 348
 <212> DNA
 <213> Glycine max

<400> 5154

ctacaagttg gatgcctcgc tatgtggatg catctcttag ccaatctgcc tcgctaagcg 60
 agtcattaac aacttttacc ttctcttctt tggcgtgaaa ttgagttgga ttcaacatta 120
 ggtcacaaaa attgagtttc tactctataa aatcacacaa tagagaaaat atgtacaatc 180
 tctacaaaaa gaaccataaa taggaggcat attgctattt tcttgcagat atccaatacc 240

[illegible]

```
<223>      unsure at all n locations
<400>      5155
```

<210>	5156
<211>	397
<212>	DNA
<213>	Glycine max

```
<223>      unsure at all n locations
<400>      5156
```

<210>	5157
<211>	293
<212>	DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5157

aacttgtttg gatgatgagt tagcaaggca ttgtggaatg gttcctgtca acttggtgag 60
agataagttg agaatctgaa tcgctcttgc attgcaaatt gaggaagaga atccatcagt 120
gattgagtta aaactaagat catgggttacc aagttgcttg ttccacgaca attggtccaa 180
tgattgggtc aatcggttat gagagaggtc caattcagat aacgatattt catgcaacca 240
atgtggcact ttacctttaa gtttggtgtt ggacanagag agcgattcca aac 293

<210> 5158

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5158

agctttgctt ctgttcaata tataatgact gtagctaact atgcgtggnt aatccgatcc 60
gatcatcgat ggctcggaag tatgatggc ttaatgatga tcctacacgt attttcgtgt 120
gtatctcaca ggcggtttta aaaaacctcg ccaattaact tgggttacgg gtgtagttat 180
ggctgtattg actgcatctt ntgggtgtaac cggttatcc ttacctgtg atcaaattgg 240
atatagnca gtcaaaattg taacaggcgt acccgacgt attcctgtaa tangatcagc 300
tttggttaagc tattacgcgg aagtaccagt gcaggacaat ctaccttaac tcgttggtat 360
aggttgcata cttgttgcatt acctcttcta ctgctgtatt at 402

<210> 5159

<211> 453

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5159

atccttaagt cacctgcggc tgcagctttt atccaggcaa ttcttgggtg tgatgctcct 60
tcttcttttg cttattccct agtggatggg gccttccctc tctctctctc ctttgccttc 120
cactgcatct ccattgatga aaatcaccat tggaggacct cattgaagct caaagatcca 180
gcctccatag aagctccaca agcaagcttt catcaaaagg agactgtaat agtctttata 240

acaatgaaag tagaagacca tgaatgtctc tgcattgcaa cggactcgct tgtctctgga 300
 aggcanagaa gactgtaata gtcttgataa caatgaaagt ggatgaccac tgatgtctcc 360
 tcatgccaac ggactcgctt gtctctagaa gggcagggaa actgcaatag tcttgaaaac 420
 aacaacaacg gaagaccatg attatctccg cat 453

<210> 5160
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5160

agcttattnt cttatatgtg atgaaatttt ggtcaatgaa tttctctttg ttctttgagc 60
 acatacttga ttatcngnga attaattctca tcgcttctat gtcattgtact acgaaatcaa 120
 tgcgaaatat tgtgagaaga gaatcaacct tgacgtatga atgtactata aaaatatgtc 180
 ttcttgaaatg ggataaggct acacctttta tgaaaaaatg agattttcat gcttcgaaaa 240
 actttgtgag tgacacagaa tcattagtta gatggatcac agttggatac aagttgcatg 300
 agccctacgt atgaggaatg cgtggaacac tttctgaaat atgccaccga tagaagtcga 360
 tcggatgagg atggaacata tttnttgctc tgtatacact cgttgaaatg gagacaatca 420
 ctacttgatg acatacgaga acatctact 449

<210> 5161
 <211> 348
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5161

agcttagcag aggatanggt tataccctta tcttatgacc ggcggtaggg cttgttcccg 60
 aacacgaccc aatctcctac ttgataatgc atctctgcga tgtttgtgat ctggttgttt 120
 cttcatgagg acctgggctc tgagcagctt cttgtgaata gcttgaaagg atgcattctt 180
 gtcaatcaag aggctctcga cagcttcgat atttgatgtg ctggagatat actcacggaa 240
 attgaatggt tctcggcaaa tgtcacctcg tagggagttg taccggttcc cgcgttccac 300
 gaggtgttgt gtgaccattc tatccatcgg atgaacttgc cccaccta 348

<210> 5162
 <211> 339
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5162

agctagcaac aaacataatg tcttgtcttg ttgctgacag atacaacaaa ctaccaatta 60
 tactttctata aacaaaatca tccgctttat caataccatc gttcattgat aacctttcat 120
 tcacaacaat tggagaggcc acacgcttgc attgctccat gcaaaacttc aatatcacca 180
 aagcatatct cttttgtgaa atgaagatcc cgtcattaca ttgagaaatc tccattctaa 240
 gaaaatactt aatttcaccc aagtcaacca ttcanattc gttgtccatg tcccttattt 300
 cacctaagtc agtcattttc ccactttctc acgtaccag 339

<210> 5163
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5163

agctagttgg attatggcgc acccgtcata tgttggtacta ggtggcgatc gggcgatggc 60
 gcanatcaac tctcccactt ccacaaatca tacatgaacc caccatccgc agttgcccac 120
 cttcaactga gctcacgtac tcttacgtag cccttatect cgttcctctc agcaccgggt 180
 ccccatcaac cactccaagc ttccacaata tccaagcaat tcaattccaa ttaccatgaa 240
 ctaccctaaa ccaagagaac agggcagagg cagagaactc tgcccaaaca cattacacat 300
 tacagtttcc ttactcatat atcccagaac atttcttcgt ttcattcgta accatgaatc 360
 aactgaaatt tactggaggt ctagtcataa gctacatttg accgttggat ctctagaaat 420
 gctagaccaa tatgtactac ctccatac 449

<210> 5164
 <211> 1352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 5164

tatcagtga ggcgcgaaca acacanaccg cgagaacaca gacctacca catcagcacc 60
cnaagaagcg ccaattgtga gattgctggag atccggctag ccacgtcgac cctcgcgga 120
tagatcatct ctaggttaca acanatattc cccgccncnc nccntncatc ancaaccaat 180
acacgcctca tgggacgcac aagacgggat atacagctat tcaggaggac ggaggcgagc 240
ccaccacgc tacaagcgg cgcggaata ataattataa cgncnaccna acgaccgcac 300
cccgcccaac acaacacaaa taatgcgcaa ggggacatgc gcgaaggcat agaagaaaac 360
agacgcgacg gccgacacag caaggccagc gacatatcag aatccgcacc aacaacaaaa 420
ggacagcgga cgcgacagca caaccacgc gaaaccgagg ccaacaacga cacaccctga 480
acgccaatgc tcacaatata agaaacacca gcgcaacgca cccacacga gaacagaaac 540
ggcacacaga acaggtgtgc caaggcgacc cgacacgag gcgcgggcac acagaaacgc 600
acagagcgag ggcacaacac aaacacacc accagcacac aactggcgcg ccccgacac 660
gactaacaca acatacaagc cactaccgca caccgcgga gagatatgca caccgcgaca 720
cacaccagag cacgcgaagc ggcaaccgt caacggcccg cgacagagag agagaaccgc 780
gcaacacgga cggacacacg gacacagcaa cactcccca cgaaagatca accagccatc 840
gcacacgacg acaacacggc gaaatcatca aaacgcagac caagggaaca cacaagcgga 900
gcgagcagca cccacacacg gcgagcggca gaagcaaaa caaccgcca ctagaacgga 960
gagggcccga gcaacgaacg acgacataca ctcaccaccg cctccgaagc aagaacaaaa 1020
cacaagcaac accgacggca accaagaacg acgccacatg cacaccacacg agcgcaaaaa 1080
tatacaagca cacgcgaccc gagaggaacg ccaccctaa caagcaaggc agggcgcaac 1140
cgaacgaggg acatccacag cacagagaac accgccatcg caaaagaaaa cacaagcac 1200
aaggctcacc caccaaaacc caaaccacag aaacaaaaca ggaaacggac atcaacgcac 1260
ctacaaaca atcacgcaac acgtaccaga aaccgcgcaa gcacaacacg ccgacgcaag 1320
caacgtagca acaacagaca aaccacaaa cc 1352

<210> 5165

<211> 1013

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 5165

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 acgttcgcgc acccggggta cctgaaaac gtccgcagcc ccccccaccc cactcccaga 120
 atgaaaaaat aggggcggcc aagggcgaac aaaaaaggag ggccccccgc cgccagtttt 180
 tccttttttt ttaacccaac acccccaaca cacaacgcca tgcgaacgca aaaaaaacac 240
 acagcccgcg ggcccgccacc gcagaaaaga taacggcaac cacattcccg ggaggggaaat 300
 aatccgcgac agaagataa accacaggcc tccaaccaa acatctcatt ccgcgacctc 360
 caaccacata actccggaac catcgaccgc gggatggaac cccaacacc cacagccgcc 420
 cccagacccc ccggaagaca cccacggag ccgccaccac aaatgcaaaa gaaaccccac 480
 cagacccgcg cccagctcac cttcacgaaa cccccaacg aaacaaccgg caaccacccc 540
 agcaataaga gccaaacccg cgccgccacc ggacaggggt aacaacacac gaaaccgccc 600
 ccccgaccc actcacaaca caaccagca ctcaccggcg acaacacaaa agagaccac 660
 ctcagagagc ggcgacaccc accgggtaac aaaaaacaaa acccccgga cctacaaacg 720
 ggggcgacaa ccgcacccga ccgctccgcc accagccaca accacacgac gcacaacgcy 780
 cccgacggga cgcccccaac acccaaccgc caacgctgcc gcggggaaca aagcctaaga 840
 catagacccc ctttcacccg ggggcgcccc accagtcgcc gcaccacaa gccgcccacc 900
 ctcagccac acagggcgag ccaacgcgac cgccccacc ctaggacaac catcgcaaca 960
 gaaacaaaa cctacccaac aacagccacc ccgcccggac agagtaccaa ccc 1013

<210> 5166
 <211> 240
 <212> DNA
 <213> Glycine max

<400> 5166
 tgcagcgaca tcggaactcg atgtacgaaa agtctccatg tgggtgttgg atcaagtggc 60
 ctcagaataa ttaagaaagg ggggtgaatt aattattaat gtaccttgac taattaaaaa 120
 atatccttct taatgggtact aaaattaatt aagcttttac tacttaattt aaaaagttaa 180
 gaatataaaa agaaacttta cccaaagtta aaaccaatat ttaagtgcct atcggaatt 240

<210> 5167
 <211> 903
 <212> DNA
 <213> Glycine max

<400> 5167

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acgcacgcat taacattgcg aaacaagcaa ctccacacc ccgagacgca tgaaatcgac 60
tcctacccgg ggaccccaga gtcagcagaa gtccgcaagc ctgttaaacy aataaaaatg 120
aggccacgca tatgctgccc ccaacaacta aaccagtttg gaatgagagg gtttctatat 180
tttaatgggg ttcacaaacc caataacaat gcggacgatg gggaaaaaca aatgggaaaa 240
aaaagagatg ttaacagcaa ttttggttaac cccccaacta taaacggatt tccgataacc 300
actcttaaaa acaaaaccca aactaatggc cgaaaagatg agaaaacaca atctttttta 360
actaacgagg gcgttaccac acgaaatcgg gaaccccaac aaatgaaaag aaaaggacaa 420
gaggtaaacy ggactcccga ggacccaaaa aaaaatactt taaaaaaacc cggaatccct 480
tttaaaaaac caattcccaa tgcacagata ccccacaat tcttctctgc cacagaaccc 540
caataaacia atcccccttc aaacattaat caaaaacacg gggccggaga aacaaaaaaa 600
caaccatcgg gccctccacg atacaagcac gacacaaaca aaccaccag aatactccag 660
ggacaaacia aactctaact tagaacacca aaaagcggaa cggagtcccc taaaaccaga 720
gaaatcacac cccccacaa agaacctccc ccaaagacga gggagccaat gttgcacccg 780
acaagccccg acaagcaggc accccaacia ggggcaaaaa gagggcaaac ttctggcaaa 840
acgaaacggg gcaccaataa cgccaactcg aaaacccgac aaacaccccc ccaccgaaat 900
tcc 903
```

<210> 5168
 <211> 287
 <212> DNA
 <213> Glycine max

<400> 5168

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tgataathtt tcccagctc atggtctcag gcaaagggga ttccctttcc ccttacctgt 60
ttgttcttag catggagagg ttggctttaa agatcaatga gctaaggag aatggtgtct 120
agactcctat ttcttatcc agcacatatg ttctttgaaa ataattgtct tttgttctgc 180
aaaagctaaa gtggtggatt ctacttctac tcttgctcaa tatggtattg cttttggtct 240
```


gagagttaat ctcaaggagt ccaaattgat taatttgctc taggggt

287

<210> 5169
<211> 395
<212> DNA
<213> Glycine max

<400> 5169

gctttgaggg tgcgtaaccc accatctttt catagtagag tatcgataat gtgtctacca 60
tcacgatcat cgtttttctt ttccatcatt gggggtacca cctgggccgc cagatccctc 120
caccttttgg gcgtgttctt tgaaagatcc gtcccccttt ttgcaaagt tctgtagttg 180
catcctatcc ggaaccatat caaaattgta ctgatactgc ctaacaaagg caaccattag 240
gtccttccaa gaatggactc gggaagattc caagttagt taccaggtaa cagctacccc 300
agtaagactt tcttgaagg aatgtattag caattcctca tcttttgcgt attcccccat 360
cttctgacaa tacatcttta aatggttctt gggac 395

<210> 5170
<211> 287
<212> DNA
<213> Glycine max

<400> 5170

tctcccccaa ttttctataa atatggggag aagtgaagt gaaaagggtt cagcccctta 60
ggcacttctc tctctttcga atttgcttag aaaaattgtt ttcgtgaaga aaatccaagc 120
cgaggcgttt ccgtaacggt tccgggagtg atttcgcgaa ggttttcgac cgttcttcga 180
cgtttctcat tcgttcttca tcgttcttcg gtcttcaacg ggtaagtacc tcgaaccaag 240
ctttccgatt cattctatgt acccggtgtg gttcacattg tgtttcg 287

<210> 5171
<211> 489
<212> DNA
<213> Glycine max

<400> 5171

agctttataa tgggctttct cttcattgct actagtatca ataatagtag taggtttctc 60
ttccaatata gtaagatcaa gatccaaaac accgagatga aattggattt gtcattcca 120

ataagagaag ttaaaccat taaaaattta cacagatgat acatgagaat tcagtgaatt 180
 gggaacaggt actgtataat aaaattcaaa taagcatttt gagatataaa acacatgtca 240
 tacatataat tcatttagat aataattaat gtacattggt gttctccttt gggatgataca 300
 ccagcataac atacaaatat gacgatgcta ataaaactct taacattatt tgacaattaa 360
 atatgtacca attaatggta cctattacct ttgagtatat aaataaaact aataatacat 420
 agaaatcacc taaaattata ttcattaatt ttaagaacaa ctaatccacc tttgggtgat 480
 ccataaata 489

<210> 5172
 <211> 290
 <212> DNA
 <213> Glycine max

<400> 5172
 taggaaaaat tgcaagagat gatcaaaagt tgctctcacc atggcttttc tcaacaaagg 60
 ttgggtgata ttttctatgg tggaatgtcc tcacataata ggacaagttt agatgttgct 120
 tgttatggca atctcatggt aaagccctta catatatcat caaatcatt gaagacatgt 180
 gttctaacc ctacaataac ttaagggata ggacgattac gaagagaggt gtcaactagg 240
 tgcagaaaga tgaatccata actaaattat gaaagcagat gcaagctcta 290

<210> 5173
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 5173
 agcttccact ccagttccca ttcgagtacc taacgggtgt gattttcaaa cgtaaaaaac 60
 cagaatatat aataccctta agctaaccga caaacaattt ttggatgaaa ttactaacg 120
 acagcctttc acgtatgcag gtaatcaatt tcgggtttaa tgtatgcaac tgaaagatga 180
 tgctgatggt aacacaatgt taatgtgtaa tcatgaattt ttgtttgttg atccgattga 240
 gtttttatgt agcattgcta gaaccccaaga tggcatttta aatttacttg aatctattat 300
 gaaccctact catgatgcc tgctttatta caatgggagg tggaacatgt cacgcaaaa 360
 tgagtttgggt gggtactcat tcgtaggaaa aaatcccaaa aactttgaca ttcccactgg 420

atgtaccat

429

<210> 5174
<211> 280
<212> DNA
<213> Glycine max

<400> 5174

ttatgttttc cctcccgtgg atgtagcctt gatcaaaggt gaaccatgta aatctgtgtg 60
ttctttctct tttttcttct ctttcacctt gctgcacaat tatgtgtgta tgacatttct 120
attctgttgc atctcctgct gctgttcttg tttgttcttc atcacttcca caacaaactg 180
gtatcaagag ctcaagttgc gatcaaggga attcaagatt cttgtctgaa tacaagatc 240
aagctatggg agtcttgttt ctggttcttc cactgcttca 280

<210> 5175
<211> 587
<212> DNA
<213> Glycine max

<400> 5175

agcttctccc ccaattttct ataaataggg ggagaagtga agtgaaaaag ggttcagccc 60
cttaggcact tctctctctt tcgaatttgc ttggaaaaat cgtttccgtg aagaaaatcc 120
aagccgaggc gcttccgaaa catttccgta acatttccgt gaggaatttc gcgaaggttt 180
cgacagttct tcgacgttct tcattcggtc ttcattcattc ttcgatcttc aacggggttag 240
tacctcgaac caagcttttc gattcattct atgtaccctg ggtggtccac attgtgtttc 300
gtgtattttt attctcgttt catttacttt ttataccctt ttttgacgtg cttaagccat 360
tttatttaag tcatttctcg cttaacctta aaataaaata aatttccacc gatcgtttaa 420
attgtattat ccggttaactt cgtttaaaac aaaatctaac cggtaaatcg tgccgtaacc 480
acgttggaag ttcaaaaaag aaggtaaata ataataaat aatcaaaaaa atatttttta 540
tttaaataaa gcgaaaaatc aatccggcct tttctctttg ggaattc 587

<210> 5176
<211> 475
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5176

atcctctaag acacccgcgg catgcaagct tcggctaaat tagtctaaac ttttgtaagc 60
tatttaagct aagtctagtc caacaagagg gattcttata gactaagctt agtttaagtt 120
agtctaaacc taagaggggtt gtctaaatta agcctagtc aacaagaagg atatgaggat 180
gaagcttgga ttgattcatt ctaactaggg atcgagggtt aataatttag gctagaacct 240
agaaaacaaa agcatgattg attagagaaa catctttata tacatcagct ggtttgtag 300
aaagacccaa catctttacg tactgttgtc aatcttactt acttgcattt ttactgtttt 360
tagcgtagac ttagtttaat tctattctaa atcatcaatt atcaatgttt ctttcaacaa 420
tgccttattt atgaatntaa cctgtctaa gactaattcc ctgagttcca tactc 475

<210> 5177
<211> 284
<212> DNA
<213> Glycine max

<400> 5177

tcttatccaa ggctcatctt ggtggtgaag ttcctcttc catggcttat tccctagtgg 60
atggcgctc ctctcacctc ttctccttg tcttccactg catctccatg gtggaaaatc 120
accattaaag gacctcattg aagctcaaag atccagctc catagaagct tcacaagcaa 180
gcttccatca agtggtaatc agagcacaag agctttaagt aggtgctcct taaacctcca 240
ttaatctttt actttacett ctcttcatt gttgtttctt catt 284

<210> 5178
<211> 408
<212> DNA
<213> Glycine max

<400> 5178

agcttgctct aaatttacat tgatgtttgt atttatggga ggaggttgta tgccattttt 60
tttaattgtg tccactgggt aaaactaact ttccaaatgt ttgccttcgc aggaaatggc 120
cccaggaag cttgcctcaa agaagtccag gaaagacaag gcagccgaag gaactaattc 180
cgctccggag tatgacagtc accgctttaa gagcgtgta caccagcagc gcttcgaggc 240

ggattcaaaa gattgaaaaa tttaaaattt attgggcgaa tttccccttt tgggatttct 720
 aaaaatttcc c 731

<210> 5181
 <211> 287
 <212> DNA
 <213> Glycine max

<400> 5181

ttgagccaaa atcctgattc accataaacc ttgaccaggt gtgagaatgt caatccttac 60
 cctcggaagc aaaaaaagaa tagaggggaa atttccaatc aaagaaaaag agaaggaaaa 120
 tttccaatga aagcaaaaaa agaaaagaag gaaaattccc caatcaaaga gtgggagaaa 180
 gcaaaaaaag aaaagaagga aaattcccca atcaaagagt gggagaaagc aaaaagaaaa 240
 gaaaggaaaa ttccaatca aagaatggga gaaagtaaaa aaggaag 287

<210> 5182
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 5182

tcaatttcga ccatcacgat atattacccg actcatccgg acatccatgt ataaagttat 60
 tgtcaattca attttctcag agcttcggat cagaattttg agcgtctcca tatattacgg 120
 gactcattca gacattcgaa taaaaaggta ttgtcgtaag aatttgatac caacttcctg 180
 tttcaatttg gaaaatctct cgataaaatg caacactctg tcgggcatcc gagtaaaaag 240
 ttattgttgt atgaattttc taagaagttt cgttttcaat ttggaacgtc tttatatatt 300
 acgggactca accggacatc cgtgtataaa ggtattggca ttacaatttg 350

<210> 5183
 <211> 354
 <212> DNA
 <213> Glycine max

<400> 5183

tttttaaaca gacaaaaga ttattatggt gttgtgaatc tgcattccaa ttggcgtaaa 60
 tatttatata accaccttgc ctgagtacta aaattctaaa actatcctac tacaaggagc 120

ttgtgcta atgttctatt gacactcttt gtttctgaac ttcttctttc acggcaaagt 60
 acttcaattc catatgctta gcacccgtag agtacttgtc gttcttagaa aagaatattg 120
 ttgcggagtt atcacaatac attttcagcg gcctagcaat actgtcgaca attccaagcc 180
 ctgaaataaa gtttcgcagc caattagcct gaattgtagc ctcaaaacat gctacaaatt 240
 catcttccat ggtggatgca gcaacaactg attgttttgc actcttc 287

<210> 5188
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 5188

agcttcagcc tgatcgctaa ggcacaactt atccttggct aagcgtgacc tattgtcgcc 60
 aagcgcaatt ccttactgcc acaattgagg tccatgaagc taagcgctgt catgacagct 120
 aagcgagatt cattacggca atatgagcgc taagcgagtc cctctcaact aagcgcatgc 180
 tcctttgtac ttaggatgca tcatttttagc taaactgggc aaagcctggc ttaacgagag 240
 ttgcagcttt tctaactctac agacctcgct aagcgaactt actctcgtgc taagccaagt 300
 ctctgttaaa aaaaaacctg attttgaatt tgaaacgtcg gctaagtgca cgggtccgct 360

<210> 5189
 <211> 256
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5189

ttgcttctac acagtgtact tgatgggtgcc catgtttcat atgttggatg ttgtgtatgt 60
 tcgtgggggg gggggtgcat tgaccttgtc agatgttcct ggtgggggaa aatagagtgg 120
 ttaaagagtt ttaagcatct ctagagggga tggcttanga tctttaattc atccatggtt 180
 agtgtacttg atggtgccc cgtttcatag gttgtatgtt tatggggggg ggggtgcattg 240
 accttgtaat atgtcc 256

<210> 5190
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 5190

agcttctatt gaaatgccac aatcatataa ggcacttaac ttaagcaaca acacacataa 60

actttcttat tcttaaaact tttttttttt attttagcag tttttacttt cttgatacaa 120

aatttatgtg gttgttgcac gtcttaccat aatcatcatt acctaatacc ttcccccaaa 180

tttggacaaa atttgcttg aaccacaatg ctctcctaca acctaaagaa aggtagatgg 240

agattataat tcaacagggt taggggtcaa ctcaatcaat cagattcaag ctcaaaatgg 300

gtgcaatgga ttcatcattc atgaacaggg taagctattt ggctaaatgg ctaattcaat 360

caatcatggc cttcatcatt tccaaatcat g 391

<210> 5191

<211> 287

<212> DNA

<213> Glycine max

<400> 5191

tatcattggc tcgttacccc ctattaattt ggaaaattac ccacttggag tcaacttatta 60

cctttatttt cttggcccct agctcctcga ctattcacac tcttgcaatg caagcttcat 120

actctgcatg gttgttggtt gttggaaagg aaaaatttaa ggcttgcttg actattaagc 180

catatgaaga ttccaataag acatagctcc acttcttttc tcgtgggaag acccgtctac 240

aactatcatc catacttgat ctcttttttg gtactccaag atcagct 287

<210> 5192

<211> 594

<212> DNA

<213> Glycine max

<400> 5192

agcttaagcc ttttatacat gcttagtaag gatcaaagat gttaaaaaaa tggattgatc 60

tctaagtttc taaaaagcaa tgagttcaac acactataat tgattacaaa gttttgttat 120

caatcacaaa gtgttagaac aaacaacaaa tctctcttct acttgaaatt tttggcaagt 180

tttgacaaat taatcgatta cttgtttcaa taatcgatca tagaagtcag tttcaaaaaga 240

agaaagactt tgtagcttaa gctaactgat taccttttat tgtaactgat taaattgtat 300

ctagaaataa tcaaagttag tttcaaaaaga agaaagactt tgtagcttaa gaagttctct 360

acatgatgaa ataatcaatt accacacctg ataatcgatt attccagaaa atacagaagc 420
 atgagaagct ctttatttga aacaagataa tagattatca tttcctataa tcgaatacaa 480
 gatttatgaa aatgcataac aaaaaggatt ttgacgtatt aatcgattac cataatctat 540
 aattagttaa aattgggtta cccatcaaaa ttataaatac ccttttatct tatt 594

<210> 5193
 <211> 279
 <212> DNA
 <213> Glycine max

<400> 5193

taacgcttgt atcatgtatt aaaattcagt ctgtttatct ttctgctttc tgggtttaaa 60
 aaagccaggg gtaggggaaa aaaatgattt tgaccccaaa attttgattt ataattacct 120
 gataatagct gacaagggaa aacatgtggc ccgtggctga tcaaaatcaa aattgccaaa 180
 ggtttgga aaatcctccc atgggtcaagg gtgccttttg ctgtaacccc ccttaattac 240
 cccaattgg ttaaaaaaat ttcccatttt ttttattac 279

<210> 5194
 <211> 507
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5194

agctagtaat acattaattg ataaaataaa actttggcat ttgagattag gtcattgttag 60
 tgaacgggga ttacatgaaa ttgagaaata aaatctgtta ggtggcgata aactagataa 120
 acttgaattt tgtgatcatt gtgtgcttgg taaatcacat agaataagct ttggcactgg 180
 tattcatggt ttatctaggc cttttgagta tgtgcatttt gatttatagg gaccatttag 240
 agtgaaaatt catggtggaa gtcataactt tctcaccatc atagatgatt tctcaagaag 300
 agtatgtctg tatgttttga aaaataaatc agaagctttt caaatattca gagagtggaa 360
 aactcttatt ggaaatcaac ttggtacaaa actaaaaatt ttaaggactg acaatggcct 420
 gtagtttgtt tcaaagcaat tcaatgagtt ttgcaggaaa gtaagtatca naaggcccaa 480
 aacaatccct tacacaccac aacaaaa 507

<210> 5195
 <211> 282
 <212> DNA
 <213> Glycine max

<400> 5195

tagtcattat aattaaagtt tctcatttca tttcaagaat gtgttttgtg gaaaaatttt 60
 atttatttta taattattgt aattaattgt taaaatacta aaaaaaagtg ttttaattatt 120
 tatatttggt attatttggt taacaattat aattataatt tgaatactat tataatataa 180
 tttctttatt ataaatcatt ttatttgata attattcatt ctcattcctt cttattgggt 240
 tcatattggt caataatata taatatactc ttatataaaa aa 282

<210> 5196
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 5196

agcttaatgc aaactatttc tataagaaga tgggtttggc cccttcatca tttgattcac 60
 acttaaatc ttcgcttagg attgttacga tttttgttaa taaatctctg cttttatgaa 120
 caaaaatata taaagttggt ttacgagata aagacaaagt ttttaatggc tttgtataaa 180
 ttatagatgt cgcattggaa ttttttagga aaagggaaat tggagctgca aacctcaact 240
 aaccacgatg agtaaagtcg ccaccataac aagctagaac caaatatcaa gtgaaaaatt 300
 gtgaaaaatc accaaagaga aaatgcgcct tgctacaatg aatcctcaat ttgagaccaa 360
 gaacatgatc ataaactcac tatagtgaat gaatc 395

<210> 5197
 <211> 284
 <212> DNA
 <213> Glycine max

<400> 5197

tctagccaaa tggacttacc ttgaattaat tcctttgata gcccttttga gccttgtttc 60
 cctttccttg ttttgaagct cactacaagc cttaagtga aaaccatgat attaccatat 120
 ccttaaggaa ttttgagct ttggaattgt tttgggaata agtgtggggg gtttttgttt 180

cattggacaa cttgttttgt tggctatgct tcatgatgta ttttgggcca tacttgatgt 240
acattgtata ttggttaa at gttggacatg ctgaatgaaa tggt 284

<210> 5198
<211> 408
<212> DNA
<213> Glycine max

<400> 5198

agcttcacct tctggctctc ctcatagttg tggcatgaga aaacatgctc tattttcatc 60
tcccacttta tgtggcctcc ggatcattct ttcctttaaa tggaggaatg ttgagtttaa 120
taccatcaat tcggttttgt ctaggaacac catcattccc tcttctctc ctttcttctt 180
cattatgatc tctattctcc atttgatcca acctctcgtg gagegcatca tctcgttggt 240
tcattaacct ctccatagt tgcatcaaag cttgcatttg gaattgcgaa agccccactc 300
catcattagg attagtacct gacatctcaa acaacaaat caaacgtaac acgacaatta 360
tagttgctgt ttgaataacct caccactca agtgtatcac acaattat 408

<210> 5199
<211> 284
<212> DNA
<213> Glycine max

<400> 5199

tctgttatga atttcgagt tctcgatata ctacgggaca caatcggaca tccgagtaaa 60
aagttattga catttgaatt tgctcatagc attcgttgctc aattacgagc gtctagatat 120
attaaaggat tcattcggac atccgagtaa aaagttatta tctttttatt ttgctcagag 180
cttctgtttt caatttcgag catctcgata tattacagga ctcaatcgga tatccgagtc 240
aaaagttatt gtcgtttgga tttgctacga gcttcgggtt tcaa 284

<210> 5200
<211> 427
<212> DNA
<213> Glycine max

<400> 5200

agcttgaggc acttgctttt taacctagt tcccaaaagt ggccttacc aaggatcttg 60

ttttccatac attatgaaaa ttggcacatt gattttttga catctaaatg gaaaattaac 120
 ttaaatagta ttagttatca ttttttgaat ttactttcag aaaccaaact tcagactgaa 180
 aattcactag catgttatgt cagagaacac ttgttgcac tgatccccac atccttataa 240
 gaaataactt aagattttca catcccttac gatataatgt gctaagtttc agaacctcac 300
 acacaaataa atgtagcagt agattcaaga ttatagcgtg ccccatagat aatacaaaga 360
 aatcaaata acatataact tgtgtacctg atacaaagat tgagtcattt gttttatgtt 420
 atagatg 427

<210> 5201
 <211> 283
 <212> DNA
 <213> Glycine max

<400> 5201
 ttaaaatttg aattaaaacg ttcagaaact gctggtaac gattaccata tatgtgtaac 60
 cgattacacc gtgcaaattt tgaattcaaa ttttaatagc tgttgtaaaa catttttggc 120
 cactggttat agattaccaa atagttaata acttggaag ataacttttt aacttaaata 180
 tcttgacaa accttttagct aatcaattg gaaaacgctt cgaatataat atacccttgc 240
 taagactcta gagactgtct tgatcatcca tattgaatat gct 283

<210> 5202
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 5202
 agcttgcaga gttatgtctc gtattagttt aatcgattac agccttatcg taattgatta 60
 cacagttttt gtgagataat gactaattta ttcaggagtc tctgctttta tcgattacca 120
 tgtgatataa tcgattactt ctctttctat aagtgtttca aaagtgaaca agaacacatt 180
 aatctattac tttgagtatc taattgatta cattgttctt aagccgtttc cagtttttgg 240
 gaagaatact ttaatcgatt aaaaagataa tacaatcaat cacttcattg aattaatcga 300
 ttaccttgta gatttaatcg attatagacg gttataactg ttttctctat aaataaccag 360
 cttgtgttct cttaacata caacaaaata agcttcagtt agagctaaga tcacgtgtgg 420

ttattaggtt aagaaaga

438

<210> 5203
<211> 278
<212> DNA
<213> Glycine max

<400> 5203

tgtaatcgat tacagcattt gtgtaatcaa ttaccactaa ggaattttca aaaaataact 60
cccaagagtc acatctattc aaaagatttt tgaatggcca tcaaaggtct ataaataggt 120
gacttgggac acgaaatttc ttagagtttt cctgaacaaa ttgtcttata ctctcaatac 180
caaattgtct tataactctc aaaaagaatt ccttggccaa aacacttgca aattcaataa 240
ggaatcttaa gtgatcttca attttaatat ctttctct 278

<210> 5204
<211> 413
<212> DNA
<213> Glycine max

<400> 5204

agcttattta tttgattaat gaatcatatt gattattaat taatgcttta tttgtttttt 60
taattagcaa aagtgatgat atatattata cacaagggt aagcaaccta tttacaagta 120
ttgaaaactg aaaatactat ctccatacct tggttaaaaa atattaacat aacaacaata 180
taaataattaa gtaaccaagg aatccaaaaa gagaaagttc acctccctgc aagtcactgt 240
aatactacta atgacaatcc taccatca ccaaaaaaac ataaataatg ccttaccctc 300
ccacatgttg ttcccaaat attaatgctt tatttgttgt tgatgtatgc aatgcaaggc 360
aattgtgaat cccaagaatg aaggatttca tgaatgagag caagctgaat gat 413

<210> 5205
<211> 275
<212> DNA
<213> Glycine max

<400> 5205

tgaagtcagt tggattcatg tattattatt cgtgtaatgt ataacttcta ttaggatatt 60
gctatttgca ctatccactg ggatgcactt taaccatata ccaaaattgt tccttgagga 120

attgcacatg attatttgat ttcactccga ataacaatga aatcatatTT tttttgtttt 180
 aaaagacatt ataatagata taccattcta ttgtgttata atccgataat gaaatcatag 240
 tttaatgtgt tatttttcaa aataataata aaaaa 275

<210> 5206
 <211> 878
 <212> DNA
 <213> Glycine max

<400> 5206

cgaccaccct ccgtacgcat gtatacaaca ccccgaggc cgatgactct tatggtcctt 60
 tccggacccg ggactcctaa aaaaccccg cgcgaacatg cgagaaatgc tctgctaact 120
 taatcaacaa cgccttcacg gaatggatac ccagttttg tgccaccaga ctaatttatt 180
 caggaggggtc tggcttaatc gattaccatg tgagataatc cgcatacctc tctttccata 240
 aggggtgcaa aagggaacaa caacacgttt catcgattac cttgaagatc taattgatta 300
 cattgttctt aaaccgctcc ccatatttgg ggaagaatac cttaatccat taagaagata 360
 ataccatcat cactctagtg aattaaacga agaccgtggg gagtaaatcg ataactgacg 420
 gctaaactgg gttctctata ataaacagcc cgggttttct gaacatacaa caaacaacc 480
 tcagtagagc taaaaccctt gggggtatcc ttgaagaagg aaaaaaaca agtttttaaa 540
 acaatccgta cctacagtca gacctctggg gggaaaaaca tccgtgaaag accggagttt 600
 cacgctcagg gcaactgcga agcaccatgg catttcaact aagggttatt ggagaggctg 660
 acccaaatat gcatagtata cccctgggtc atcgccggaa gggctctgcc cgcacgggtt 720
 cgcctcaagg gacggtacat cacacagcga tggccagcac agggatatgt ctgtgaggag 780
 cgagtatgct accaccgtta tctctacgca cctacgtgtc ctcatgccgc tcccgaact 840
 gagcactcac cgtgacgcta tctctactcc atgcaccg 878

<210> 5207
 <211> 1104
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5207

ctcatgcaca cccgctaatt aactatgtgc attcattatc caggcggcta acaccgccta 60

gggagttccg aagaccatta tattaaaaat aacattagtt ggcatacgaa acacacagtt 120
 cactgtaatt cccaagtggg catccagcac acttgggcaa caaatgcnta cacaataaca 180
 atcctgcctt ccattaaatt agaggaaggg cccttgctat atataaatca atatgtgaca 240
 acaatacaac gttgactact ggaatataca gcategtgag gtgaggctga ccatgagtca 300
 ccataaatca tacctctata agacgtctca acccagtgat ctgcgattac acgagcggct 360
 actaccaact tgagatctgc ncgtaaatac accagaataa cactccccta ctctgaatca 420
 acatgagcgc ccctgtaaa tggagaggat aaaaaatctc tcattatata attaacacct 480
 tactataagg gaggttaac caagacctcg ctctatagga caccacaaat aaacacaacg 540
 gtacaactca caactcatgc gctattctgc ccatttctcc gcgtctcaat agagattcac 600
 gcagaagacg cctctccaga atacctcctt cgaatatctc tccctgatca ccctcttggt 660
 ggaatgtcat ggcaccggaa ccacaacaac atattctgag accacctccc ctacacaga 720
 gtaagagtgc gcggtgatct tccatactct aaataccgta attgaaatac ttctggcaaa 780
 aatacaatta gcatacactg ctgcagactc tatacanaga catattatcg ggcgtcctat 840
 catcacctct cagagtggtg ttctgggtca catccaagat cattatatag catgacaaac 900
 acatggcggc caccaaacta cccttatatg aaccacctct accgcgaggg cgggctattg 960
 tcatttatct cacagacata gtactacaat tcttatatcg ctgagacata cagacaactc 1020
 acctacgaat cacctccatc taatatcaag cagctacta taccctacga tcacgcaat 1080
 gtatactatc atagtacata cacc 1104

<210> 5208
 <211> 481
 <212> DNA
 <213> Glycine max

<400> 5208

agcttctccc ccaattttct ataaataggg ggagaagtga agtgaaaaag ggttcagccc 60
 cttaggcact tctctctttt tcgaatttgc ttggaaaaat tgtttccggg aagaaaattc 120
 aagccgaggc gcttccgaaa cgtttccgtg aggaatttgc caaaagtttc gaccgttctt 180
 cgacgttctt cattctttct tcgatcttca acgggtaagt acctcgaacc aagcttttctg 240
 attcattata tgtaccctg gtgggtccaca ttgtgtttcg tgtattttta ttctcgtttt 300

atttactttt tatacccctt tttgacgtgc ttaagccatt ttatttaagt catttatcgc 360
 ttagactaaa aataaaataa atttccaccg atcgtttgaa ttattttatc cgttaacttc 420
 cgggttaaaac caattccgac cgtttggtcg tgcctaacc cccgttgga accaaaaaag 480
 a 481

<210> 5209
 <211> 287
 <212> DNA
 <213> Glycine max

<400> 5209

tctactgatg tggcagggcg gggccccttc ggcttgtgt cccaatcgcg agccttggcc 60
 tctgttcttc ctttccgaga ttttttctt tatgtcagct tgcgtagggt tatagcctaa 120
 cccaaacttc ccgcgatttc ctctggtgct taccaggctg gttctgccgc cgttgttctt 180
 gcccaaacc attacgggct cgtagccgta cccaacatc acccgggcca ccatcattgc 240
 cgtatcatat aggcaaggct gccagagag ggaatctacg gaggcaa 287

<210> 5210
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 5210

agctttgagg gtgcgtagcc caccatcttt tcatagtaga gtatcgataa tgggtctacc 60
 atcacgaaca tcgttttctt ttccatcatt ggggggacca cctgggcccgc caaaaccctc 120
 caccttttgg gcgtgttctt tgaaaaatcc gtcccccttt ttgcaaattgt tctgtagttg 180
 catcctatcc ggaaccatat caaaattgta ctgatactgc ctaacaaaag caaccattaa 240
 gtccttccaa aaatggactc gggaagattc caagttagt taccaggtaa cagctacccc 300
 agtaagactt tcttgaagg aatgtattag caattcctca tcttttgcg attcccccat 360
 cttctgacaa tacatc 376

<210> 5211
 <211> 289
 <212> DNA
 <213> Glycine max

<400> 5211

tctcccccaa ttttctataa atatggggag aagtgaagtg gaaaaggggtt cagcccctta 60
ggcacttctc tctcttttga atttgcttag aaaaattgtt ttcgtgaaga aaatccaagc 120
cgaggcggtt ccgtaacgtt tccgggagtg atttcgcgaa ggttttcgac cgttcttcga 180
cgttcttcat tcgttcttca tcgttcttcg gtcttcaacg ggtaagtacc tcgaaccaag 240
ctttccgatt cattctatgt acccggtgtg gttcacattg tgtttcgtg 289

<210> 5212

<211> 472

<212> DNA

<213> Glycine max

<400> 5212

agcttgaaat tgcattgtggg tacctatattt gaatctccta tgctgtctca taaaatagtc 60
ccaccatccc aattttgcaa aaccatattc atatatcgcc ggggcatttc accgagcact 120
tggtgggctc acgtttggac ataaattgca agagaattgg ggcaatgtgg catgccccat 180
tgcttcagaa cacaacatag gcctaaggcc ttctcattca aatcctcaac tcaagaaatc 240
aagcataaaa aacaacccaa aactgcccc acaatataag cacgtttctca caatttagag 300
caccaaaaaga tgaagaaaat actccaatgg gaagcaaaaa actcaaggat tgaatactta 360
cttggttgag tgagtagaaa caccaaaaat gaaagcaaaa tgccacccaa agtggccttat 420
gggagcaaaa accgcaagcc ttcgtgagtt ttctcttttg aatgaagggg gg 472

<210> 5213

<211> 285

<212> DNA

<213> Glycine max

<400> 5213

ttgattcttt tagtgtgagt gaattgggtca ttctattact attgttctat tctttgtttt 60
gacatgcata tccttgaatg aattctaaaa ttatgaaaa gatgagactc tataggcttt 120
cttgagacct gtgaattatt ttgattagtt tttcccttag tcgatcactt tgaggatgaa 180
tgattatatt tttttgtcct taaactatat tgtgtgattt atagatgcga ggaaaaaagg 240
gaagtaatac acattgcagg ttgtgtcagt gaataaatcc tacat 285

<210> 5214
 <211> 232
 <212> DNA
 <213> Glycine max

<400> 5214

gccctatagt gagtcgtatt acaattcact ggccgctggt ttacaacgtc gtgactggga 60
 aaaccctggc gttacccaac ttaatcgctt tgcagcacat ccccttttcg ccagctggcg 120
 taatagecga gagggccgca cggatcgccc ttccaacag ttgcgcagcc tgaatggcga 180
 atggcgcttg atgcggtatt ttctccttac gcactctgtc ggtatttcac ac 232

<210> 5215
 <211> 493
 <212> DNA
 <213> Glycine max

<400> 5215

agcttggaag ccaaggcctt gaggtttggt ttatgttgt tggattgatt ttatatcctt 60
 cattcatatc atggctctga gttggtatct tccttgtctt gtgtgaatca tttttggctg 120
 taaggtttcc aagttgggat tcgggtgtat gggcctgacc aaagtgtaca atgatcctgt 180
 tcctaaagag gttggcatct ctttgatcaa atacacattc agtaaaggga tcactttctt 240
 tgttactgta gatttttatc gaccccatgc caacaaagtt ttggtcgaaa aggttaatta 300
 ccttaacact ttgtaacata tttgtttcac tttaacaata acaaccata atataatgta 360
 acataacatt ttaattaact ctgaggtggt caggggcttg cctcaagatc aaattcagat 420
 tcccccaaag tttggtattg tcaaaatgga taatggtaat gtgatagtga accgggtccc 480
 ctgaatatgt ctg 493

<210> 5216
 <211> 285
 <212> DNA
 <213> Glycine max

<400> 5216

tataagatat agttaattta attgaaagaa ttgataaaa ctaattaata agttaactga 60
 tagatattaa atagcaggac atatctaata ttcaaatat ttaaaattta tttctaataa 120

atttttttac aggaataagc ttatggaatt tcattaggaa ttaaatacata taaacaatac 180
aagagaaaagt atgataataa attaaattga agtcaagaat gggatgggtgt taccctaacc 240
acgattatga gcaacaactt atcatcttaa aaaaagtaag ataata 285

<210> 5217
<211> 341
<212> DNA
<213> Glycine max

<400> 5217

agcttgagcc gtactttctg aagtcgctcg acaatacttg agaaaaagaa tcggctaaca 60
gttgcattha ttgtaacaat gacaatgtca tcaacaacaa cagctataac agtaacaata 120
acaacaatag taatattagc aaaacgaagg ccatgtctcc tgagccttat cgggaggaga 180
gatcaagacc caaaatgaaa gagtcagcgg ggggtgtaaaa aaaaaaaac actatatgta 240
gagagtggtc gatcgatgca tgcatacata ttatacata tagtttaaga ctatgaacct 300
aattatgggt agtccgcaa ctctcaagaa cttaataaat g 341

<210> 5218
<211> 277
<212> DNA
<213> Glycine max

<400> 5218

tgacaccaaa aaggtctaac atactttaaa tcacaccatg ttgtgcttaa cggttgagaa 60
tagctcttgt tctttgtttt atgcagcctc tcttttttgt aggtagcata atgcttgaggc 120
ttaactcaca ctttttctta ttgctttcat tgctaaatac taccctctgg gatccgagat 180
cattaatcct ttagctatga gcctatggtc gatcatgttc gtaagctaca tcttttctgg 240
ccctttatta tttgtagata acattgttgt ggggtgta 277

<210> 5219
<211> 370
<212> DNA
<213> Glycine max

<400> 5219

agcttgccctg tcttatgctc tgacgttgtg actcattaac ttagtcatga aagaattcat 60

attccataat ttaagatagg accctatatt tcagtaaaag agggtcacgt attgtaattc 120
 atggcacgaa atgtctactc gacaatataa ccgccatgac tcatgtgcaa tcatatgcct 180
 atctgacata tatacaagat ttaagttttg cacacgatgg ccatatttgt gagacacaag 240
 aaagattata ttagtagtat atgtgggaga atgttagcat atgaccatta tgtatcgacc 300
 cacctcatgt ctacacctcc acactctgat agttgataat ttcaattcct ataaaaagaa 360
 ctcccttaat 370

<210> 5220
 <211> 283
 <212> DNA
 <213> Glycine max

<400> 5220

tgatgtgcga aagcgtggaa tagtcagtct tcctactttt gattgttgac cacagagtgg 60
 tacctgtaga tatgtccctg gggatcatgag accttgggga ccttctgtgg ggtgctattg 120
 cccaaaacca agcttgacta ataccgagcc aacctgggca ttatctgatt atgataacct 180
 gtgacctacc tagatgagct agccctgtcg gtctgcctat ctgggagctg agcccactaa 240
 tcaaggaggc ttgtgtggcg gctggccagc tatgtatctt ggg 283

<210> 5221
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5221

agcttaggta tggcttccaa acacatcttg aaagagctca acgatttgca gaatgatcct 60
 ttacgtcat gcagataagc ttctcgatcc ttttttctgt ttttttctgt cttttttgtt 120
 ggggtgtatg taacaaaaac tattatttgt gattatatat ttatatattt attgcaatgt 180
 gttatctaata atataaatg taaaggagta gtgtgtggaa atgtccaaaa tggacatctt 240
 ttatcttaaa tctagatttc attttttaaa ttacagacatg agttttgatt tagattatgt 300
 tgtaacagtt aattaattca aaatatgctc ttttatgata atttttattt gatnttcatt 360
 catttttttag attttgtttt ttttcttta 389

<210> 5222
 <211> 281
 <212> DNA
 <213> Glycine max

<400> 5222

tcaacgaatt tatcttatat ttgatgtgga ttacagttat taagttgttt gcgtcaagta 60
 aactaaattc gttaacttta atagcaacca cgggatcaat gtaatacgct gttaactaac 120
 ttcaatatgt agtttaccag aatgagtggg aagaatatca aactaacgaa aatgatagaa 180
 aatgacgaga gaacttcacg gatccattgg tattattata ttgtataatt tgataatccg 240
 atggagctca cagaatgata atttcatcaa agttatttcg t 281

<210> 5223
 <211> 478
 <212> DNA
 <213> Glycine max

<400> 5223

agctttgata ccagttgata caagtgggtc aaaaagagtt gagtttattg aagaaaataa 60
 agaattttct ttatattaga agaattcaag ggggtctggg cctcctaac aatccaaact 120
 acacactaaa aaatataatt ctctaccagc taagtttaat aaaactcata actttcctaa 180
 caatctataa cagattccca cccatgataa aaaccttcaa actgtactaa ccaacacttc 240
 tgttttattg agcctcatca ttagctcgcc catccctcct cctaacatag acccttttaa 300
 ttaaggttct agtatcacia aaaaatactt gtcaatgcc aacccaaact tattttaagt 360
 aaacacttcc acattgcttt ttttctcaat ttccagtcac taacagtcta tttggatgag 420
 aaatttggaa atttaaaaaa tttaaaattt taaattttta attgctttta ttaatatc 478

<210> 5224
 <211> 279
 <212> DNA
 <213> Glycine max

<400> 5224

tcgcggaagg aatgagcagg aaagtttctt ccgaagaggg ggggcttttt ataatttttt 60
 attaaagggc aaaattgccc attccaaaaa attgttgggt gcaccagcaa tattgctgag 120

tgcacctagc atctccctct aggatttcat ggtacaagag aataaaacag cccaatattg 180
 agtaggcttt gaagtcaatg aagcccaata ccatcttggg cattatatat ttcctctttt 240
 gatatttgga aattctgaat tcatcacatc accctattg 279

<210> 5225
 <211> 440
 <212> DNA
 <213> Glycine max

<400> 5225

agcttttagat attagctgaa agactcatgg atgactttat ctctaaaatg caccctcatg 60
 aaagagcccc tctcacttga agtgtggaat tgtaccttat gttgaaattt gactttttac 120
 atagaagaaa gtggtgacaa ggtcaaactt ttgaccactg gccgttgaag ctttgatacc 180
 aagattaaag aaaatgggtt agagaaattg tttgttaggc agcataaatg ttttagtatt 240
 taaaaatcct atttcaaaa tcagagtact tctaacttaa cacaaatata ataacttgta 300
 tagtaatcag taggcttaat taattatact tttggctcct ttgtgatagt caatgtgtga 360
 tttttgtcct cttataattc tttgcagcaa tcaaatactc cattgtttcc caataaaaat 420
 acttttggct cctttatgat 440

<210> 5226
 <211> 276
 <212> DNA
 <213> Glycine max

<400> 5226

tgcttctaca tatgggttct atcgcacaga atggcatgat cactgggtga catattctca 60
 attagctctg ttgctttttt ggggtcttca gctttatttt tccccctgca gaagcatcta 120
 gcaatttctt gggttgtggt atcagcccat ctataaacat attcaattga attgtcttgg 180
 aaaacctatg ggtgggagtt cttctcaata aacctctgaa cctctccaat gtttactca 240
 aagattcatc aggggaactga tgaaatgaag agatta 276

<210> 5227
 <211> 969
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 5227

attagcacac atcccaccta ctatacccc ccgctcggac cttganttcg tgtgaccct 60
tcccanaccc cgaaccgctg acaacaagcc gcaaggcgca agcccaagaa accagcatgt 120
atacagaggg tctttaaggg gatgtcgtt agcgcaggaa aaaaagagga tcttttttta 180
tacttaaaac caatccatag ggggtcaggg tccctactca acaatcgac agtgaccacg 240
gccgccgata ctttccctcc caccacccc gaggttgatg agcaactcaa cacctgccct 300
cacaccactc taggcctctt aacacacccg ggaacgaaac cgttccgact gaacctaaaa 360
ccccgcttca tgcccaacag gagccccacc aaatatacgt ccccgatccc ccaactgcga 420
gccaacagcc cttttccatc agggtagcg acttcacaaa aaaaatactc tgtcgaccgc 480
cccacaagcc aaacttattt atgagaagac accatccaca atagcctgcc ttcgggcctt 540
tccaagccac cacaggtctc tcacggatga cagcaccccg ggacatttaa ggaatgcaac 600
actgccctga ttaaaagagc gcctctcccg atgccttccc tagacacact accatagctc 660
ggagaaacag agacaccgc caaagtgtaa aacaaccac cccaatggg ggaaaatacc 720
ctccgcacca agactcgtct taaaacaccc ccccgctctc atctcatcgg gccagccac 780
caaggccctc tcaaccgcg gacacaaact ccgttccggt cctcaccacc acaaacgagt 840
acagcccggg cgcatacagt tcaccccaat accctctca cgaccgctgc ccgatgacat 900
gcatagcat acgcgtagcg aaacacaccc ctttgttcag cgcaccaaga ccaacaacac 960
cgctcccc 969

<210> 5228
<211> 910
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5228

tgcgcttcta gaatcacgac agttacatat actctccaac cgctacgggg nantttgaat 60
ttgatagacc natgctccg caccggggga tacctnanaa gaaggacctg cagggctgcc 120
aacctttata taagcactcg gccacttaga ctatttgag taaaaatggg cacaaaaatt 180
attcgcacga gatacgtaac ccaattattt aggtatccca agtatagcaa ccaagaagcc 240

agttttatggg caaaggacct accttggggg cgcaggatta acccaaccat tgggcccatt 300
 gaattcaaac aacgttaagc attcatatga catatgtaaa tgcattctaaa gccatgtgca 360
 aaactacaag catagtccat acacttgggg tttaatctaa caccctaggg ttatcatgca 420
 cctaaaataa tgggtgagca agtgtaaaga tcttgaccca ttccagcctc aaaaccgcat 480
 agaaaagggg ctgggacatt tattaacag aggggtgtggg caggtaaaac ctggctaact 540
 gaaggatcag gagcaattgg acctgaaaat cataaaagaa tctgggatgg gctagagcca 600
 ttcctttaac cccaatcca agcatttgga acgtgggtgg cccgacactg tcttccaagc 660
 tgggcagacg aacatcaagg gccaaccttc aagggaacgg gaaaaataaa cggaaggagc 720
 cctcatttgc ggggaataag gaatgcaccg atgaaccaa ggggctaaaa actggaattg 780
 tggaaacaag gagggcaaag gccctggggg gctctcgga gttggaaata aagggggaga 840
 ggggccctta tctcagtgc actgcggagg gcaccaagat atcgcgagtg aagcgcacac 900
 caggcaaacc 910

<210> 5229
 <211> 450
 <212> DNA
 <213> Glycine max

<400> 5229
 agcttatttc tttatgttca tcgatcccta ttctataata tgggtctttc taactaacc 60
 tgtaaattha attttacaat ggatgtaaag gccattcgaa atctagtagg ctaatttttt 120
 ataatgaact aatggacaat tgtactatga tactactact tgataaatc ataacccttc 180
 acaaacaatg tttctgctga cctaagcatt aacagttaaa gaggtgattg atatatacat 240
 cactgatcaa ttcaaatttt tctccaaaac aaaatctgaa tcttatagca acacataaca 300
 tgtatataaa tttatattca ttcttgggtga taaaacttga agaacattta ataaatttac 360
 tccatgcgac aaataaactc aaacttttgt agcttataaa ctgcaagcat atcatgctca 420
 atttatgggtg gcaaaagcat gtctttcaca 450

<210> 5230
 <211> 287
 <212> DNA
 <213> Glycine max

<400> 5230

tatgaacctc gcgtatttga tattaagcta aaatggaatt acggactctt ttttatattc 60
gaggcttttag gttaatttag tcccttgagt tgaattcttt ttttacttta gtccttata 120
atcttctatt agatcaaatt ggttcttctt ccgtgaattt atcgcattag tttggacaac 180
ttaaactgta gcatacatca cttcatgcaa agtcgatact tttagtacca tagtttaaca 240
tggatgctaa aaggacaacg cgaaattttt aacacttaag agatcca 287

<210> 5231

<211> 434

<212> DNA

<213> Glycine max

<400> 5231

agcttcttgc aacattatgg tcaatgagct gcataatgag gggaaaaagc aattttcctg 60
ttataaaaaa tatattagcc aattttgatg atgctttctg agaattgaga agcttgccctc 120
ctaaaagggga ttgggatcat gctatcattt tgaagaaggc tcaaattcct aatatttgcc 180
cccacatgta tatgcattat caaaaaaatg agatagagaa gattgtgaag gatatgcttt 240
gtgctgtaag gcccaacact aaccctttca gtagccctgt tatacttgctc aagaagtatt 300
gtgtgtggag attttgtata gactatcagg ccatagacaa gtaaaccaccg gataaatttc 360
caattcccat aatagatgaa ctactagatg tattgggtga tgcagtgatt tttgtaagat 420
gaactactct tttg 434

<210> 5232

<211> 285

<212> DNA

<213> Glycine max

<400> 5232

tggagaggat gcttcaatgg aggaaaagaa agagggagag aaagagagag gggggagcac 60
gaaattgaag gaagaaaaag ggagagaagt tgaactttga gttgtgtctc gcaagactct 120
cattcatcaa agttacaaca agtgttacac atgcttctat ttatagacta agtatcttcc 180
ttgagaagct ttcttgagaa aacttccttg agaagcttct ttgagaaaac ttccttgaga 240
agctagagct tagctacaca caccctcta ataactaagc tcacc 285

<210> 5233
 <211> 1099
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5233

gggatacaga gccatttgaa acntgtttga taacggtagt aatacagcga gatttttgaa 60
 agaacctcct tttggaacat gtaaaaggca agaacttatt ttctaaaaca atgcggtgaa 120
 gacaagcaga catgtgtagc gcgtgtgtat tttcttatat gtgagaaatg ggagtttccc 180
 ctcattagcc tatcccccaa taagaagagt gtggggtaaa ataatggta tgggaggata 240
 tactgttttt cttaggggag ggaacaaatt tgggaataat atggtaagaa aggcgtcgtt 300
 gcggggaaaa ttatggaatt atatttgtac cgataaagat cgggagagaa caatatctta 360
 attgaaaaga atggttgtga tagtagggat caaaacaatt ggatacataa tattagctct 420
 gggaanaagg agttattgcg actttttcta taacaaatca cattttttgg agaagaatag 480
 gcacttatat tttggttact attttggtgg aagcgagtga ataaaaagtg gtgtttttgg 540
 tgaaagaggg ttttaaactt ttggggaagg gcaaaataaa accctaattg gatgaaattg 600
 tgagccattt tgtggggaga gcatccaatg ggtgaccatt ttcaaaaggg ggggaagaaa 660
 gtttatgac gtttatttta ataagggggg ttgccagacg ctctattgaa attcttgaat 720
 aaagatacgg agaataagtg ggcgcaaaaa tcacttggga tgggaaagga agaaaatgcg 780
 ttgtttctcg atggtgatga aactaatgag gggaccactg attggcttat aagcgaaacg 840
 gcgggatggt gatataaaaa gaaacgataa atggtaaaga aaggaaaagt aatgggtatg 900
 gtattaaata aaaaaaaaaag aagcaatagt tattgttacg ttctatcggg gggaaaagaa 960
 cagattgttg ttatcctcat attggatgga gaagaagagg gggaatgaaa atagtattcg 1020
 tgtggaacna ataaaaacaa tgagcataga gacgaggtag gctatgatgg tagtggtgta 1080
 agtgaaagtg tataactaat 1099

<210> 5234
 <211> 168
 <212> DNA
 <213> Glycine max
 <400> 5234

tataatatat cgaggcgctc gaaattgaac aacggaagct cttgagaaat tcaaattggtc 60
 ataactttta actcggagtt caattcatgc gcatcacata tagagacgct taaaaatgaa 120
 caacggaagc tctccaaaag ttaaaatggg cataagtttt cacactga 168

<210> 5235
 <211> 461
 <212> DNA
 <213> Glycine max

<400> 5235

agcttatgcg cataacttctt tacgaacggt cacttgcaca agacattctt ataactaaga 60
 aaaatgcacc catatacaat caaggcacct tcgttaccta gattatttat atgtacttcc 120
 aagggtgtatt tgttacctac atcacacgca tttcctttgc taaatttaca tacatgctta 180
 ctcaaagcac tttggctatc aaaattgcat acgtgcacat tctgggtattt ctaatacctg 240
 tacatacaca aacttcatga tgaatcttga ctatctacac aataagggtgc tacatttcat 300
 gctttttttg aagtgtcttc actacctaaa gccgcatgca aattcaagta tattttcttt 360
 tgccgattaa aattgtattc aaattaaaag gtatttttgt aagggtatttt ctttacataa 420
 catgcaacat atatattttt tttgtgaaac attttgacta t 461

<210> 5236
 <211> 282
 <212> DNA
 <213> Glycine max

<400> 5236

tgaaattgaa catcagaagc tctcgacaaa ttccaatggg cataacttgt cacaaggaag 60
 tccgattctg gcgcacacata tatcgagacg ctctaaattg aaaaccggaa gctctcgaga 120
 aagtcaaaaag gtcataactt gtctcacgga agtcagattc gggcgcataa tatatcgaga 180
 cgctcgaaat tgaacaacgt atgggtctcg gaaattcaaa tgttcataac ttgtcacacg 240
 aaagtccgat tcaggcgcat aatttattga gaagctggaa at 282

<210> 5237
 <211> 468
 <212> DNA
 <213> Glycine max

<400> 5237

agcttcttta aagccatcgc ctacaaagac acatccaact aaaatttagc ataaaaatta 60
tttcgcatga gatacataac catattatth tagttatccc aagtatagca accaagaagt 120
caatttatgc gcaatgtacc taccttggtg caacaagatt aaccaaacia ttagggcaat 180
tcaattcaaa caactttaag cattcatatg acttatgtaa ttgcatctaa agcaatgtcc 240
aaaacttcaa gcttagttca tacccttggc atttaattta acaacctaag tttatcatgc 300
acctaaaata atggttgaac atgtgtaaag atcattaccc attcaagctt caaaatcaca 360
tagaatagtc attgtgacat ttcattaaac agttggtgtg tgcattgttaa aacatgtata 420
aatgagggga taggagcaat atgacatgaa aattcataaa agaatacat 468

<210> 5238

<211> 285

<212> DNA

<213> Glycine max

<400> 5238

tatgaaacia caccttttct gtctagaaat tacagataat gccaaagtaat tatagaagga 60
gcactttcat ttctattata aaacttggtg ataaagcata atagtacatg aaatgaataa 120
cccaccacta gtacaaattc atcccatgaa tatattgcca acccaaaact ttcaacttct 180
tgcttttggt tagggttaac cttccgaag cttacaattg ttgtaaaaaa gacataaaaa 240
tgaatgcttc tttctaaagc acaagcattt taggaaagaa aggag 285

<210> 5239

<211> 407

<212> DNA

<213> Glycine max

<400> 5239

agcttaacia ttaccttatt aaaaattatg atttatthaa aatgacataa aaaataataa 60
aattatcatc tagttaagaa aaataacacg aaaaatgaat aaatatatta agaataaaag 120
tgaaagaaaa tataaaaaat taaaaattat tatttaaaaa aactgttatt taatgtthta 180
aaaaacaata gaagttactt aaaaaaacat atgtttaccg aactgttaaa caaatttttc 240
aaataattaa aaaactaaaa attaatthaa atgttttatt aaacataacc taataacact 300

cattaataag acactaaatt taggcttttt tttagcttaa tgggtgaatt tttttcaaaa 360
 attaccaaaa ttaatacctt ttgaattatt tatgaaagga ataaatt 407

<210> 5240
 <211> 285
 <212> DNA
 <213> Glycine max

<400> 5240

tggaccgttg gacgtgcatt gcatgaaaat aattagtata aaaaactaac tgatcgctat 60
 aaacatagtt tggaaaaaca aaaaggaagc atcattacgg catgtgcaat gcattatatt 120
 aaaaatagga caaaaatata tttttgatta ctatattttc atcaaacttt atttttattc 180
 tttaaacttt tatattctct aatttgatcc ctaatttttt ttttaacaa tgttttttagc 240
 tatttttcac agattttcat taacaatggt aacttgagtt gtgtc 285

<210> 5241
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 5241

agcttttttg taatggatat gattttcact aacaaatatg gttaaactt agactttgaa 60
 tgtatcatcc aacgagtgc aaaaccaact tatttaaaat caaatgtgga ctatcgcca 120
 atgctagtaa aacagagttt tcaaaaaagt tttcaagtgc agacttgtgc aacaaagtgt 180
 atcaaaatca acacaaaaga atactaatca agtagcttta gagagaagta gaaacacttg 240
 gatttatacc aattcactca aacaaagcta tgtctagttt tcctttgcaa atcaataaag 300
 ggttctacta atcaaaactt gattacaaca agtctatgta ccaaaagcga gtatttttca 360
 gcctctatgc attggcgaat atttttccac caatactcag cttctttcac caaaatatat 420
 gtaccaaaaag caactttt 438

<210> 5242
 <211> 195
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 5242

tgaaggtagg agaagatgag tggagggaga gggagtgaag aggcacgaaa ttttatgcct 60
caaagtgggt ctgaactttg aagtgttaatt ctcaaatgat caaagttaca acaagtgtta 120
cacatgcttc catttatagc ctangtagct tccttgagaa gcttccttga gaaacttcct 180
tgagaagctt ttttg 195

<210> 5243

<211> 418

<212> DNA

<213> Glycine max

<400> 5243

agcttcaaaa ggacattagc aacttcactc aaaatgaaca agagaactct tcagaagcct 60
gggaaagatt ccaagagtta ctgaggagtt gccacatca tgggtttaac cagtaaagga 120
tagtgtacat ttctatagtg gagtgcctc tcacaacatg actggccttg atgtatgtca 180
aggcaatttg atcatgaagc caaccgttaa tgccattata atcattgaag atatgtgctc 240
aaatccctat cacaattatg gggttaggag aatcatgaag acgctcgatc aaccaggttg 300
aaactgaagc agctactttt ggccttggac gatagattta agcattgtcc aagaaattca 360
gagttgaatg aaagctaagt ctcaagtgcc tatctctaca cctccaatc acacttgt 418

<210> 5244

<211> 281

<212> DNA

<213> Glycine max

<400> 5244

tcaagttttt tttttctgtc agcaaaaatt aaagcttcaa gttgattaat tctccatcgt 60
ggcttgtctt tttaaattgtt tatagctagc gtgctgatta tatatcttct ttaatcaaga 120
aaaactctgg ttacttgaga tgtactctat agggaaatat aacgcgattc tggggaaaaa 180
taatattaac aatgaatata ttatggatct atttcttagt gaccgacatg tctacaaatt 240
ctataaactc ttctcagtaa taattaatat gccctgac g 281

<210> 5245

<211> 439

<212> DNA

<213> Glycine max

<400> 5245

agcttctata tgaccaaccc atactttccc atgcccttac aaaactctct agtgataaac 60
tactttgcat gtgtcatccc tgaaaacaaa aagaaaggca tattgataaa ggcaccaaag 120
tatgaatgca caaaccaacc ttttcaacat agcaacgagt gagaaggatc acaaaacaaa 180
ggcatccgtc gtccaaacta tttgagttac acgaaaaggc aaattattga ttcaaagggc 240
gtacacaaca atatagagta tttgacgaac atggattctt tttaaagtga tagatgcgag 300
taggttttga aaggggaaac agttcttttg aaagtatgat aaagcgattg aatagcttta 360
ttactaaca aagccaaatg caaccgtaga aggatttgaa aaaaaattaa caatgaaaag 420
aaagtcattt attgttaaa 439

<210> 5246

<211> 276

<212> DNA

<213> Glycine max

<400> 5246

tacatcgact gccagaaggt gcataacaaa ctcgttgaaa ttagttgcaa cttgtaactg 60
tttctcggag gaagaaagaa agaaaaaacg gttataacaa actttttttt ctgctacggc 120
tgctgctgtt gcaagttggg gcgcctccgg aaatagcgcg tttgttgag gaaatccggc 180
gagaaaacga cctatgcaag agcgacgtcg tttcttcttc cacgtgcttt ggagccgatc 240
ccgagcttga cgagttcatg gtccccctt ctttct 276

<210> 5247

<211> 419

<212> DNA

<213> Glycine max

<400> 5247

agctttacta gtgttccaag acatgatgtc tgctggagaa tgtccaaact atgtaacctt 60
cattggggta ctttctgctt gtgttcattt agctcttgta caagaaggat tctactatct 120
tgatcagata atgaagaaat ttgacgttga gcctggactg gagcactaca catgtatggt 180
tgcacttttg ggtagggctg gtttacttga tgaggctgaa aactttatga agacaacaac 240

acaggtcaaa tgggatgttg ttgcgtggcg tactttgctt aacgcgtgcc acattcatcg 300
aaattacaat ttagggaaac aaattacaga aactgtgata cagatggacc ctcatgatgt 360
gggaacatat acattgctat caaacatgca tgccaaggca aagaaatggg atggagtgg 419

<210> 5248
<211> 275
<212> DNA
<213> Glycine max

<400> 5248

tgtaagttag ttgtgtacct attatcactc tgcataatgtg aaaattattc tttgaaattc 60
tgaatgtggt ttcaaaaagg tttcaaggcc ttggtgggta tccaaaatgt tgtatctctg 120
atcgattagg aatcagaatc aagaagcacc aaactacaaa ggaagcatgg gaattgcttc 180
aattggagtt tcatgatact gatagaacta ggctcaaggc ttaaattcaa ggaactgagt 240
tcgaagatga aagagagata attttcagag ttttc 275

<210> 5249
<211> 950
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5249

gaacgaggct atcgaaaaca cgctattgaa tatectctcc ctcaacgcca acggccacca 60
ttgacaccgt ggnaggcaac acactacnng cngacaccgg aatagaacag caagcaaaca 120
ccacgcacat cgaactgtta agtaaaccac ctttctattc acccatgctc cgacccaaac 180
acgcgaaggg agaataacag ccttggtttg gtgtcggccg cctgcccacc acaccgcaa 240
gggcccataa gataaagggc agaaaccggg taagtacaca aaccaaacc ttaacaaag 300
caaccatcga gaaagatcac taaacctcgg ggtacgccgc cccaacccat cgtgtgcgga 360
aaaagccaac ggctgattca aaaggcggac acagcaatat acagatgtag aaaaaaacgg 420
ggtcctgttt aaagggaaca aatgcgagta ggccgggaat ggggaaacat cccttttaaa 480
acatgataac agcaagcgca aagcattata actaagcaag aaacaaaagc aagcgtgaca 540
aggagctgac aaaacacctt acaccggaaa caaagacatc ttagggccgc acacgaaccg 600
aaaacggaac aggggttcgt cagtaaaacg agaccaccc cagctctcaa tcgcccagac 660

agaccgcaca agacaaacga aacgtacaga gggcgggtac ttaaaaaacc cacctctgag 720
 ccgacaagaa tcccacccaa gcacagaaac tccaccacgc gacagttgga atcagaaaag 780
 aggcccttgaa aacgccaaat gcaacaggcg cattgcaccc cgcgctcgca aaccccagcc 840
 tacaggagct atcgcaccgt aagacaccca ttcatactct ttacatcgaa caccgcacgg 900
 acaccaaagc catccaacac ccaagctacc gtgtagcccc acgaacgccg 950

<210> 5250
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 5250

agcttgcttc tacatggaga tgtacatcaa gtccacttag tacaaaattt ggcttatcat 60
 cacaaatgat gatattccca tcctaaatta aaagcacaat gggcagatgc tgatctggcc 120
 actatggaac taaacacaag agctagatat aactagtagt gtgctctata taaaaatgag 180
 tacaaaaaga tctgttggct taaaacaagc aaagagattt gagactcatt aagcacaac 240
 tacaaaggta caaaatatgt cagacttaga aaggctgcaa ctctaactag acattacgag 300
 aagttctcca taaaagaagg agaatttgtg gatgacatgt ttgagagact gcaagttatc 360
 ctaacaatc tataagcttt gggacaagcc tataccaagg ctcaaataaa cttgaaagtt 420
 ctagacaac 429

<210> 5251
 <211> 285
 <212> DNA
 <213> Glycine max

<400> 5251

tgccacccag ctgcgccagg caagccagggt tgcattctcc aaaagcaact gccttctgga 60
 ggaacatcct ggaaagccta ttgggcctgg tttctatttt tacccttttt tagtaaatac 120
 acccccattt gctttttttg gtgattattt ttctgtaatg ttacaaaact ttacgaattt 180
 cgtaacgata cttgttttat tttcgtaaag ttacggaacc tttcgggtca tgtaattact 240
 ctttttttag ctttcggaat gttacggaac ctcacggatt gcgta 285

<210> 5252
 <211> 440
 <212> DNA
 <213> Glycine max

<400> 5252

agcttgacgt gattcactct gatgtgtgtg gccatttga aatcaaact catggaggta 60
 acttgatatt tgtctctttt atagatgact ttacaaagaa aatgtgagtt tacctattac 120
 aaagaaagag tgaagtattt gtaacattta aatcattcaa gttactagtt gaaaaagcaa 180
 tctgggtgtt caatcaagat gcttagaact gatgggtggag gagagtacac ttcacttgaa 240
 tttgagaatt tctacaagga agaaggaata attcatgaag taatggctcc atacactcct 300
 caacacaatg gaactgctga gagaaagaat agaatagtgc aaaatatggt tagatgcatg 360
 ctgagaaaga agcatcttcc atatgatttt tgggcaaagg cagtatccac aacttctcac 420
 atcttgaata gatgtcctac 440

<210> 5253
 <211> 288
 <212> DNA
 <213> Glycine max

<400> 5253

tgtcgaaaag gcaaagccgt ttacaaact gctcaagaaa actgagccct tcctgtggga 60
 cgagacatgt gaacgagcct tcctggcttt caagaaaacc ataactacac caccgatcct 120
 gagtcggcct aggctaggag taccataact cctatacctt tcaataacta acaaagctgt 180
 taactcgacc cttctgcaag aggaagggaa gcattaactc cctatctatt tcaccaaccg 240
 catacttcat gaggccgaga agtgctacca aatgatagaa aatatggt 288

<210> 5254
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5254

agcttgaatn tgagaataaa aatcataaga cattaagttt ctcttggcct agaagtcaga 60
 tgcaaattca gtagaacaga taaatatatg atgctctaatt ttacaaaacg aaataaaaaa 120

aataaattgg ctttcatggt gattgtaaac cttttgagtt tggacactta cacattctgg 180
 tgaagctgac aaatgcagta tatgtagccg aagacaaggc aggcaaaaga aacattggca 240
 aaactcggat tgccctcatt ttccaattca tatccattga tcttggtgtc ataatagcat 300
 aacctacagc aatgacctga aagttgaaac cattttaagc aaaatccatt tataaaaaca 360
 ccctcaataa tcaataagaa tatattaatt tgtcagagaa aaaatttaaa atttcagtta 420
 accctccatt gtcactcaat a 441

<210> 5255
 <211> 289
 <212> DNA
 <213> Glycine max

<400> 5255
 tcattttag ctaactgtag aactcacttt tctaacaaa tcggaagttt tcattaatat 60
 tacctatatt gttagtgtc gcaaacaaaa taataatatt tcacttaaaa aatgaattaa 120
 ttatttgaac aaattaaatt ttttaattta attaatcatt aaatattaaa taatttcttt 180
 aacaaaaatt aaaatattta tttgtgtatg atctcataag ttcaatttaa gccgataata 240
 tattaattaa attaatatat taatcgagat agacatctag taacatttt 289

<210> 5256
 <211> 479
 <212> DNA
 <213> Glycine max

<400> 5256
 agcttgcct gtcctatcag gttctaagga tcaaaccatt tcccaatggt gagtgatcct 60
 aactaagcat gcaagtgtt gatcaaggca aaggcacact agaattaagt actgatagca 120
 cagtgaacac ataaaacatc attagataga tatgaaagta tttaaataca gtaccccata 180
 ggaagaacca actgaggctt tagctctcca tagcaggga gcttccttta caacaatgag 240
 aagagaagat gaaagataga agaaatacaa gtagtgggga tgtctcctcc acctctagaa 300
 acctcacaat ctcatccaaa gctcccttag atggcttctt cttcaagctc agctctctct 360
 tagtctctcc acaacaaaaa actctaaaaa aactcaactc caccaccgat ttcagcttaa 420
 ataggcaatc ctatcggggg atgcgcgctt agcaaaaaat tagcttgctt accgcatgt 479

<210> 5257
 <211> 289
 <212> DNA
 <213> Glycine max

<400> 5257

tatcagaaca acattttttt tcaaaatgca acaatgagaa aagaaagcac aaagaggaaa 60
 ttcacagaac caaatgagat taacatcaat tcacattttg tttctaaaga atataagaga 120
 aaacacccga ttcactcagg cagaggaaaa cctctcaaag gtgcataatt ctcatgcagg 180
 caattgttcc atcacaattc caatcactga tatgtcataa atcaattttt gcaagtcatt 240
 tcccatcaaa tcaaagataa attgcataat catcatggat cattagggc 289

<210> 5258
 <211> 1207
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5258

cgtctgacta cctaatactc ctaaacta ttttctctac nctctccact agcncccgag 60
 cgcnnnttga gnactgttgg aaccacgcgg aaccgcggga cactctacag tcaagcctgc 120
 ccggcatgcc aaaccatcaa tgtgtgacat taacacacat ttttctctaa tggcactaac 180
 atcgaagcct atggctctcg cgtggtggaa atacattttg ctcgtagc aacgcccatt 240
 atcgcaaggg agaagatgac cccctcgcg tctcgtctca tgaaggctag aatacgatat 300
 tcttaggggc tgaagtaata ggggtgattgc ctacagcaaa accaacaacag gttcgcgtct 360
 tgcaaaagga gtacacatac acttcattta catctttggg ctgcacaac tatactttgg 420
 agaagtcctg cggcaacca cctccccact gggaagataa tcttggttaa gagcgtcctc 480
 atagacaaaa cgcctcagta tagaatagaa atttcacctg tggtagttaa gagtaacttt 540
 aatggcgacc cagcacttat ttacaaaaaa tgtttacgca ctcaataatc gcgggaattt 600
 agaaccgcac attatttctc tccaacaga aatactatat agaaatgaaa ggggtacaaa 660
 tactaaacgt tgggcgacgc cgtaatatag attccttttt acaaagagac acgtgaaatt 720
 aatgagtcct cttgactttt aaacaaaaaa acaagattct acaccctcac aaatctttct 780
 ccagcacaaa tagaatagaa cggttgtata cactcataaa aaaaacaaa tcgccggtgt 840

gtgggtcacc caaaacaacg acattctcgc aactctaaga tatcgataag gcgtggggag 900
 ctctagaaat acgactgccc cgccaacaaa aagctaggca ccactttaa tccattaagg 960
 ggctgtatatt tactccgatac tacggaatca gtggcaaaac caccttntag caggcgccag 1020
 cgcagaaaaa acttaaactgt catgggaccc acaatggcaa tagaccacgc tcccgtaac 1080
 gcctcgacta caagaaaacc cactgtggac gcgcaacttg gccctcgta aaaaagatac 1140
 agacgcctag ttctaggcta ccagatacct cgccgcgttt attatatgcc aaccctgaca 1200
 gaaaccg 1207

<210> 5259
 <211> 282
 <212> DNA
 <213> Glycine max

<400> 5259
 ttcttgtgaa gtgttaatgc ttagattaat ttagtttcca ctaatcaggg gaagggcatt 60
 atgggtgggtc aaggggacag ttctctagac tcttatcaat tggcataagc aagaggtaga 120
 aaatgggtta tgaaagtaga aattcatgcc agcattctcc atgttagtgt atttgatctt 180
 ctacattggt tggttttgta tgctttcaat ttgttttgaa cttttaaaca agttagtagt 240
 ggcataaatt tgtgcgcaca aaatcagggt gtattgcgaa tc 282

<210> 5260
 <211> 440
 <212> DNA
 <213> Glycine max

<400> 5260
 agctttacgc ttccaagaa tcccagcgcc aacttcgca ccagcacctc ttctccttt 60
 cgaaattgaa ggagaaagac gatctcatcg aacgcgctaa aatttgatt ctttttcttt 120
 tgcttccatg acaattattc atttggctct tatacctcta caattacgtt gaaactactc 180
 atgttttagt ccctagacat ataattttta actcgtttta gttcttacac caacgcgcta 240
 gtttccaagt gtgtgaacta ttagtaagaa ttgtgtatgt acaaggatca aatgattaat 300
 taaaccgtga ttaattggtg gatctctttt tatgttatgt ttattatggg ggatgggttt 360
 tgagtagtgt gaggcgaaca tgaaccccca agccgtgaaa aagttcgttg aggagaatca 420

aaagttggca gcggagtgtg

440

<210> 5261
<211> 283
<212> DNA
<213> Glycine max

<400> 5261

ctgttttttg tccaataaat ttaaaattga tcttttttagt ctatttaatt tgaaaagtgt 60
atgttttaaat ccttctgtct aaaagttttc tattcaaag ttgtcaaac gaatccttta 120
aaagaaaaac actcttggtca taggttggtt gataataaga atgcaagaac agagtgactt 180
accatctaag ctaatttggt agtcagacaa ccaaatatct aaggacattt aaacaaaggt 240
accaaacaca aaagcttttt tcatattaca agaacaagaa cta 283

<210> 5262
<211> 345
<212> DNA
<213> Glycine max

<400> 5262

agcttggttc atgagcaaaa accagtgtta ttatatttga tatctaggag ggaatggcac 60
tagcagatat tgccatataa gcacaccaac atttcacctt ttttataaca gacacaatgt 120
caagcttgta ctaagagcct accctttctt ctaggggtga attaaaaaaa ggaatttcta 180
tatgtgtgtg tgcatactta tttatttgat tgcataccta caaccatcca ttcccttatt 240
catgttcctt ttcattggtg ctgcataaat tcttgattct gtgtggctct ttttttacgg 300
aatgcaagat agattcctcc actacttatg tcacctaata ttttt 345

<210> 5263
<211> 282
<212> DNA
<213> Glycine max

<400> 5263

tgatcaaac aattatctaa taattccaat ccaactcaat catacaattg ctattcaaaa 60
tcattctcaa acactcattt catacaaat aatccactac atatcatttt caatcaattc 120
actgctcaaa caagcttttt ggtacaagca aacaactcaa agtggtgaaa tttaaataac 180

taaaatttaa agaactaaaa cgtaaaaact gaaattaaaa tgactgaaca taaatcataa 240
aatagctgaa aataaactaa aatgttcaaa atgcacaaat tt 282

<210> 5264
<211> 407
<212> DNA
<213> Glycine max

<400> 5264

agcttttctcc actaagttgc ctaatgcctg aaatgtcttt tctgatggta gtggtcctag 60
atgcaagaaa gaatttctcc aagaacaccc tcttaaggct atccctgctg aaaatggact 120
tgaggagcaag gtagtgtagc caatcttttg ccactccctc caaagaatga ggaaaagcct 180
ttagaaagat atgaccttct tggacattag ggggtttcat ggtggaacaa acaatatgga 240
actccttaag atgcttataa ggatcttcac ctgcaagacc atgaaacttg ggcagcaaata 300
gtattagtcc agtcttgaga acatatggaa caccctcatc aggatattga atgcacaagc 360
tctcataagt gaaatcaggt gcaaccatct ccctaagagt cctctca 407

<210> 5265
<211> 284
<212> DNA
<213> Glycine max

<400> 5265

tcttatccaa ggcaattctt ggtggtgaag ctcttcttc cttggcttat tccctagtgg 60
atggtgctc ccctatcctc ttctccttg ccttcgctg catctccatg gtgaaaaatc 120
accattgaag gacctcattg aagctcaaag atccagcctc catagaagct ccacaagcaa 180
gcttccatca agtggtaatc agagcacaag agcttcaagt aggtgctcct taaacctcca 240
ttaatttttt ttctttacct tctcttccat tgttggttct tcat 284

<210> 5266
<211> 375
<212> DNA
<213> Glycine max

<400> 5266

agctttgcat gtctagtgat tctagagaga gaaaggcca agttctagag agttttgaga 60

aattttgcta tgtgaagatc tgcagagacc agagcttgaa gcgaaagccg ttatgagagc 120
 ttgagatgag tttgtgagtg gttgtgagat cctagagggtg aaggagacat cctcaccact 180
 tgtatttttg caatctttca tcttgttctt ttctttgttg taaaggaggc ttcttagtta 240
 tggaagttta aaatcctctg ttggatcttc cttgtaggta cttgatgtaa atatctttct 300
 atctatttaa tgatgttttg tgtgttcttt gtgctctcag tttttcattc tagtatgcct 360
 ttaccttgat cacat 375

<210> 5267
 <211> 281
 <212> DNA
 <213> Glycine max

<400> 5267

ttgtgaggta actatggtgt cagtcaggag atgcagtcag catgtaatag tgctgaaact 60
 actatgcatt tggaataagg aagcatttaa agtagagaag aagctgaggg gaagtgggtgt 120
 catttacctg gaagggacaa gggcaacaaa tgggtgcaaaa gtgataatta aaacatttac 180
 tcgccttggtg atacagttct gaaaagaaat ctgtgggaac aaatcagaca actgaaaact 240
 gcaaataggg ggtgggggtg gctatggcta tgggtgtgtat t 281

<210> 5268
 <211> 442
 <212> DNA
 <213> Glycine max

<400> 5268

agctttttaga aaaaagggtta tagtttagag aataggatat agcaaaacct ctgcaaccca 60
 atgtcttgtc ctttacgtag tgaattaggtc ttttgaaccg tcatccccct aacctagggtc 120
 caacgaggggt taaaaaacat taaaattcca tggaaccgta tttttccgtc taaaccaaga 180
 aaagcttaaa acagattagc agttcttaaa ctcatcttga gaatttaaga caattaagaa 240
 aatattgtag acaactttta tcgtgcttcg tgcattaaaa aaaaaacgag ttactgtata 300
 ttttcttgat tttctcgact tccccctttt attttattaa gttgattcca cactttatag 360
 tactttcaat tttattttat ccactctgaa ttaatatcta tacatctgca gaattatggt 420
 ttcatcttgc ttttatcttt at 442

<210> 5269
 <211> 303
 <212> DNA
 <213> Glycine max

<400> 5269

ttagtgaact atagacactc aagcttgtaa tatecttgat tgtcagcaat agaccttaca 60
 tgaccatcaa ctatgatttt gacccccctcc actcccatgc catttccatc aactacaagg 120
 cctccaacag aaaatccagt tacctgtaag aattgacaat gatagcagat aattgagaaa 180
 aataacatac acataaccac aataatagac aggtatcagt aatattacaa tatcttagaa 240
 tgtgggtttg ggcctaactc aacccccaaaa gctagcttgt aaggtgaggg ttgcctccca 300
 ctt 303

<210> 5270
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5270

agcttctggt gggacatctt gacttgcttt ccaatctgac attcaccaca gattctgcct 60
 tcttctatct tcagattggg aatgcctcta acagcacctt ggtcaatgat tttcttcatg 120
 cctcttaagt gcagatgtcc aaatctttga tgccatattt tgacttcac cttcttggag 180
 gatagacatg tggaggagta actgggttct tgagggtgcc ataggtaaca gttgtccttt 240
 gatctgctgc ctttcattag aacttcaactc ttctcatttg ttaccaagca ttctgacttt 300
 gtgaagttta cattgaatcc ttcacacaaa caactgactg atgctgatca agtttgcagt 360
 cagtcccttc accagcaata ctttgttcag actangaagt ccatcatgga ctagccttcc 420
 catccaataa tcttttctt 439

<210> 5271
 <211> 246
 <212> DNA
 <213> Glycine max

<400> 5271

tgaactgcca catcactctc tgattcatac cgtgttttat tgtttacttc tagacccttt 60
 attaagccac cggacaccgc gcaaatagat gaactggcac caagggcaga tgataatcaa 120
 ccatctccca tacccttggc tattatgtgc cacaaaagac tgtacaccga ccatgggcca 180
 cagcaactgg ggataaagca atggcacgga ctacatcttg acaaaacgtc acgggaagag 240
 tgaaca 246

<210> 5272
 <211> 995
 <212> DNA
 <213> Glycine max

<400> 5272

aggacacgta taaacggacg ataataacag ccagggcctt gaacctgtga acccttccat 60
 acccgaacca tggaagcaaa cccccgcatg ctagaatcaa agaaaaacag tttttaccat 120
 acaaaatggg aagcaccctc accgcgagcg acccaaagaa aatggccctc acacgagcga 180
 acaacaggcg aaggacgcgg ctgcccccta acccaagggtg caaacaagga ggaaaaaat 240
 agcaacaaac tctataggaa agcgtatctt cgccgccccaa accaagaaac aagcttacga 300
 acccattaac cagaccatca aaccgatat ggccctaaccg gagaaaactc caaaaaaaaa 360
 ttgcatgaca agctttgata cgggactctc gccgcaataa aagaagaaag cgaagtgact 420
 ggcgtaaaga aaccggaggt tacccgaccc cccacccga ccattcgaat aaaaggaagg 480
 agccccactt gtagcagtac gaaaggaatc gtaggtacac accaacaagg aacgaaacaa 540
 cccaacctta cgccaacat caggaacacc ataccagcg cggaccatta agaccacacc 600
 ccagtgggcg gagagcataa agaaaaacat actgctggga gaaaccacaa gaaacggtta 660
 aacaccaaac gcaagagaat aaaaccccg cgcgagtgtg aaaacgcgcg acctcttaac 720
 gaagaaaaac cgcgctaact cttatctccc ccaaagacaa acgcaccggg gcgctgaacc 780
 aaaaccctgc aaacaaaaat gagcgaaatc acaaagggca caagcacaac acgccgcgac 840
 ccaagcgcag aaacacaatg cgcagaaacg gataccctta agaccactat acaacgatgg 900
 acggcgacga ctaatagcac aagtcaacac gagggaaaag aaaggcttcc acacctaaca 960
 catacataac acaagcgcg agaagcgtct cacc 995

<210> 5273

<211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5273

agcttgaagt gagaaagtgt nggaagagtc agtcttccta cttttattcg ttgaccacag 60
 agtgggtacct ggagatatgt cgcgggagtt aagagacctt ggggacgtca agtgggggtgc 120
 tattgccccaa aaccaagctt gacaaatccc gacccaaccc gggcatagtc agtcagttag 180
 aacctgtgat gtacctaaac aggcgagctc ctggtagtca accgataaaa gaacaaagac 240
 cacaaagcaa ggaggcttgt gtgggtggctg gccagctatt gattctgagt gatattctgga 300
 atatggcctc tggtaatcga ttaccaaggg tgtgtaatcg attacaaggc ttaaaaatga 360
 agacaagaaa ttaagatggg ctctggtaat taatttccaa gagtgtgtaa tctattacca 420
 ggccttaaaa tgggggt 436

<210> 5274
 <211> 288
 <212> DNA
 <213> Glycine max

<400> 5274

tcggaagaaa gtgatgaggt acaagcccta aaggcagagc ttgaaagagc ctgggtagtc 60
 gaaaaaaagt tcaagtccat agccatcaaa gtctgaaaaa agtatgatga actaagggat 120
 gtcaatatgg ccaccgatga aaccttgga tgaaaaacca aaaaggcccg aaaggaagaa 180
 cagacacaaa gcaaagtttt gaggggcttt atatggcagc aatagtgagc ttaagctccg 240
 aagaggtgaa aggaatcatc acgggtcaaa tgcattgatc tgaaggac 288

<210> 5275
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 5275

agcttgactt aagaagctaa aagtagcatt gattaatact tgtaacttgt tgaagttagt 60
 gaaactttgt ggtttatcca aaactagacg tagtctcgat ggttgaaatg aaccaatata 120
 aattctttgg gtcttatttt gattattttc tcttctattt ttgaactaac ctaagggttg 180

aatttgatct ttgattttta aaaactatgt ttgtttttca acaatatgaa actatcttct 240
gatttctcct gtaaaaacct attgtttggt ttttttttaa gtctcattag acaataactt 300
cgttggttta aaaaaagggt tttaatttag taaaaatcac aacttactcc cccccccccc 360
cc 362

<210> 5276
<211> 120
<212> DNA
<213> Glycine max

<400> 5276

tttcttaaca actttatagg actaccatt tttaactga tacgaagatt tggtagacca 60
gatgtgttta gtgaattgag aaattcaggt gtgattgatt ggaaatgcca actgtcaatg 120

<210> 5277
<211> 459
<212> DNA
<213> Glycine max

<400> 5277

agcttgaagg tgtgtaaccc accatthttcc atagtaaaat actggtaatg tgtctactat 60
cattgtcatc atttttttcg tcattgaggt gccacttgag ctgccaggtt ctccaccttt 120
gggtgtattc tttgaaagat ccggtgcccc tttttgcaca tgtttttag ttgcatccta 180
tcagaagcca ttataccgac actgcctaac gaaggcaacc attaggtcct ccctggaatg 240
gactcgggaa ggttccaagt tagtgtacca gggaacaact accccaataa gactttcttg 300
gaaagaatgt atcaacaatt cctcatcttt tgcgtatgcc cccatcttcc gacaatacat 360
ctttagatgg ttcttggggc aagtagtccc cttgtacttg tcaaagtcca gcaccttgaa 420
cttgggaggg gtgatgatat tggggactaa gaacaactc 459

<210> 5278
<211> 289
<212> DNA
<213> Glycine max

<400> 5278

ttgatggtgt caagaagaaa tcacatgttt gtcacatca aaaaggggga gaatgtgaat 60

gtatgtatac atgattttga tgatgtcaaa gaagaatcta acaaggctgc ttcaaagat 120
aagcatttgc ttcaagaata attcaagatt gcttcaacaa acaaagcctt gtttcaagat 180
tcactaaaga ccaagccttg ccttaaaaca atgtgctttc aagacatgca aggctctggt 240
aatcgattac caggaagtgt aatcgattac cagaagacag gggtgagaa 289

<210> 5279
<211> 402
<212> DNA
<213> Glycine max

<400> 5279

agctttcaat atattgagac gctcgaaatt aaacatcgga agctgtcgag aaattcaa 60
ggtcataact tttttcacgg atgtccgatt caagcgtatc acatatacag aactcga 120
ttgaacaacg gaacctctcg agaaattcaa atgggtataa cttttcacac agatgtctaa 180
ttaagggtgca tcacatatag agacactcga aaatgaacaa cggaagcttt cgagaaattc 240
aaatgggtcat aacttttcac actgagggtcc gattcacgct tataacatat cggggcg 300
aaaattgaac aacagaagct cttgtgaaat tcaaattggc ataactttta actcggatgt 360
ccgattcagg cgccttacat atagagacgc tcaaaaatga ac 402

<210> 5280
<211> 304
<212> DNA
<213> Glycine max

<400> 5280

attacgagtg cctgtatatt gatgcgcctg agtcagacat tcgagtgaag agttatgacc 60
atgtgaattt ctcgagagct tcctatgggt aattttgagc gtgtcgatat attatacgcc 120
tgaatcgaac ctcattgtga aaagtattga ccatttgaat ttcttgagag catccgttgc 180
tcattatcga gcgtctctat atgtgatgca cctgaatcgg acctccgagt gaaaagttat 240
gaccatttga atttctcgag agcttccgtt gttcaatttc gagcgtctcg acatattatg 300
cgcc 304

<210> 5281
<211> 418

<212> DNA
<213> Glycine max

<400> 5281

agcttaaaca ttcaacttcg agcgtcttga tatattacga gtctcaatca aacatccgag 60
aaaaaagtta ttgtcgtttg aatttgctca caagttcaac attcaatttt gagcgtctcg 120
atatatgacg ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaattaactc 180
agagcttcaa cattcaattt cgagcgtctc gatatgtgac gggactgaat caaacatccc 240
agtacaaagt tattgtccgt tgaatttgct caaagggttc acattcaatt tcgaacgtct 300
cgttttatta cgggactcaa tcagaccatc cgagtataaa gatattgccg tttgaatttg 360
ctcagaacct caacattcaa ttttgagcgt ctcgatatat gacggggact caatccta 418

<210> 5282
<211> 276
<212> DNA
<213> Glycine max

<400> 5282

tagagccaat tcaaacgaca ataacttttt actcggatgt ctgattgagt cccgtcatat 60
atcgagacgc tcgaaattga atgttgaagc tottagccaa ttcaaacgac aataactttt 120
tactcgaatg tctgattgag tcttgaata taacgagacg ctcgaaattg aatgttgaag 180
ctctgagcca attcaaacga caataacttt ttactcggat gtctgattga gtcccgtcat 240
atatcgagac gctcgaaatt gaatggggaa tctctg 276

<210> 5283
<211> 268
<212> DNA
<213> Glycine max

<400> 5283

agcttgagat gaggaagtgt tgaaggggtga aacttctctgc ttttattggt gaccacagag 60
tggtacctgt agatatgtcg cgggggtcaa gaaaccttgg ggacgtcagg tgggggtgcta 120
ttgccccaaa ccaagcttga ccaatcccga cccaacccgg gcatattcgg tcagtgagaa 180
cctgtgatgt acctaaccag gcgagctcct ggccgtctac agataaaagg aaatcaagac 240
caciaagcta ggaggctcgt ggtggctg 268

<210> 5284
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 5284

tggtgaaatt gccatgtttg gatgagttaa acatacccat tctgttttag ggtttttatg 60
 aggatgcttg tgatgttcat gtactgaaat tgcttatgga aaactgttag agatgaaagg 120
 tagagttaac ctaggggttag aaagtgagaa tgtgggtgta tgagtggaaa aaaagtgagg 180
 ctttgagagt tgaaaggcta aatctggatt ctgtagtaaa tggagggttaa aatgagttaa 240
 tcctagcttg aaatgccatt taggacttat gagaaagggtt 280

<210> 5285
 <211> 563
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5285

agcttctaaa agaacaagtg cagctcctac taacttgcac gcgcacgtga atgattatgc 60
 aactaatact taatccttca aatgactagg agtgtggctt tgcttcttgg gccttgctgt 120
 ttgcaactcc ttgctgttac tcacattggg ctttgctgct tgtaactctt tgttggtact 180
 catcagttgg ttaattgttt tcgttctgat caagagagtc atgcacatat tttgtttaca 240
 caaaatgcac ttgagataga gtcacacaaa gtttgatatt agagcaatcg aaactcgagt 300
 tcaattcaaa ttacccttgt gttgtaagat ccgcaaaacc cacacttggtg gtatagccaa 360
 tgaaatggtg cagtaccctt ctcatggcag tcattgcana atatatcctg tgatataaaa 420
 aatcaggttt cacaattaaa gtttaaactt tcaaattgtc ccaagaaaaa tgaatctttt 480
 catttggttc tctcatctt tctgaattga ataaatccaa cattctgaaa tgaaaatgca 540
 ctaaaacttt tttttttttt aaa 563

<210> 5286
 <211> 284
 <212> DNA
 <213> Glycine max

<400> 5286

tcttgagcga tcacgtgtcc cttctgaagt atgcctcgca tcctaattta agccagataa 60
cttcctagct tttattttatt ttaatgatgt tttgttgggt gtagtatgcc acaaatttga 120
ctggagggttc atttgatgaa gctcgaatgc ttcaaaatgt agaagcatgt gaatggttga 180
ccagtgcctt gcatgggtctt ggttttgcct aatctagatc ctagttatgc aaacatgaga 240
gctttatggt cctttcttta cttttctctt aaaaatcatc tggt 284

<210> 5287

<211> 464

<212> DNA

<213> Glycine max

<400> 5287

agcttgacca gtgggtaagg ggagagactg tctgacttca tgtccgactt cgggtctcggc 60
gacgatgccg tgatgggcga tgtgcaaata cgagaccggc agatggttgcg gttgctgctc 120
cccattgtga tctgcgccgt cgacggccat tgtgctagga cgaccgttgc atgattccgt 180
ttccggcaca aatgactcgt tatcccttat accctagttg gtgaaagatg agctgtcgag 240
gaagctgtca tcggagttaa gtcctccga tgaccacgc gcgtttctcc ctctccgaca 300
acgatcttgg catccaccgc agcactctc agcaatctgg accatgaact gctcttctcc 360
aatctgcacc ttcaccgtat gttgaattaa aggctcctt gtagtcttaa cgaggaccct 420
tgctctgtcc aatctcctct ttttctccac tgagtcattc caat 464

<210> 5288

<211> 284

<212> DNA

<213> Glycine max

<400> 5288

tgaacttggt attgtcaaata tcaaaacaaa tatcatttat agaagttgta gacataatct 60
tcttgagaat atactaatta tcagtctatg catgactaag atgctatctc aatacagcct 120
atttcaacat gtgattataa tttgctaata cagctggcat ttctgatgaa cattgctgca 180
taatctgatg tgtattttatt ttatgctttg cagttcaaag tgtttttgag actaaagtac 240
aaattttctt gttcttttgt gccggtgctg ctgaagcatc tttt 284

<210> 5289
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 5289

agcttctggt gggacatctt gacttgcttt ccaatctgac attcaccaca gattctgcct 60
 tcttctatctt tcagattggg aatgcctcta atagcacctt tgtcaatgat attcttcatg 120
 cctcttaagt gcagatatcc aaatctttga tgccatattc tgacttcacg ttctttggag 180
 gatagacatg tggaggagta actgggttct tgagggtgcc ataggtagca gttgtccttt 240
 gatctgctgc ccttcattag aacttcacac ttctcatttg tcaactaagca ttctgacttt 300
 gtgaaagtta cattgaatcc ttcacacac agctgactga tgctgatcaa gtttgcagtc 360
 agtcccttca ccagcagt 378

<210> 5290
 <211> 283
 <212> DNA
 <213> Glycine max

<400> 5290

tttcgattca ttctatgtac ccgtgggtggg ccacattgtg tttcgcgtat ttttattctc 60
 gtttcattta ctttttatac ccccttttga cgtgcttaag ccactctatt taagtcattt 120
 ctgcgttaaa ctaaaaaataa aataaatttc caccgatcgt ttgaattgta ttatccgtta 180
 acttcgggta aatgaattc cgaccgttcg gttgtgccgt aaccacgttg gaaattaaaa 240
 aaaaaaaga ggtaaaaaat aatataataa taaaaaaca tct 283

<210> 5291
 <211> 442
 <212> DNA
 <213> Glycine max

<400> 5291

agctttacag cagatttttag taatgaccca ctaacctaga attaaaataa cttaatgcc 60
 ttaacctatg gaattaaaaa aaaaaaaact taatggctga gtgtaactga aattgtggca 120
 accaaaagtc accccaaca gccacaagt cagccaccat ttggtctccc aaaaggctga 180

tgcctaggtt gccaatggg cccttattac aacttgaact aaacctaact aaagcccttt 240
 tagttgattc acccaaaaca tatttttggt cagccaactt tacaaggatt gggccattat 300
 ttagacaaac taaacactct aaaattgaga caaagtgggtg tcatttagtc ctctccatt 360
 taggcatga tacaactcac aacctttgac tttctcctt gaaacttggg cttgtattca 420
 aatagtattg acaacacttg tt 442

<210> 5292
 <211> 276
 <212> DNA
 <213> Glycine max

<400> 5292

ttgagcaaat tcaaacgaca ataacttatt agtcggatgt ctgattgaga cccgtcatat 60
 atcgagacgc tcgaaattga atgttgatgc tccgagcaaa ttcaaacgac aataactttt 120
 aactcggatg tttgattgag tcccgttaata tatcgagacg ctcggaattg aataccgaag 180
 ctctaagcaa attcaaaca caataactat ttactcggat gtccgattga gttccagaat 240
 atatcgaaac actcgaaatt gaatgttgaa gctctc 276

<210> 5293
 <211> 478
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5293

agcttaacaa aaggcatgcy aagtgggtgg aattcctaga gcaattccct tatgttatca 60
 aacataaaaa gggaaaaggt aatattgtag ccgatgctct ttctcggcgt catgcattac 120
 tttctatgct tgaaacaaaa ttgattggtc ttgaatgttt gaaaagcatg tatgaaaatg 180
 atgaaacttt tggagaaatt tttaaaaatt gtgaaaattt ttcagaaaat ggtttcttta 240
 gacatgaagg ctttcttttc aaagaaaaca aattgtgtgt gcctaaatgt tctactaaaa 300
 aattgcttgt ttgtgaagca catgaaggag gtttaatggg gcattttggg gtccaaaaga 360
 ctctagaac attacaagaa catttttatt ggcctcatat gaaaaaagat gtgcagaaat 420
 nttgtgaaca ttgcattgta tgtaaaaaag caaagtctaa tgtaaacct catggatt 478

<210> 5294
 <211> 278
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5294

tctatataag ctgaaccatt ttatcaataa acacaagttg agttttattc agaaaattag 60
 agttttatctc ttttatctta gtgagagtga ttctcctaaa ttcttgagtg attcaagaac 120
 accctggctg tatcaaagga ctttcacaac ctttgtgtgt tgccctcgct gganagagtg 180
 attctttcct tctatcctc tccacccttg ttctttcaaa ccacaattcc agaaaatcca 240
 cctctgcccc aaattatctc gtgaccataa ctcccatt 278

<210> 5295
 <211> 927
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5295

ctatccaacc tataacgtat atctcctaga atgactccat ctgcgcgacc cacggcnnaa 60
 ttgaaaccgt cgtttatgcg gcgatcctna aaagacgacc agccagcaag caagcccccc 120
 aaaaaaacct cgaagaagca tcttgaggaa accccttaac gaagccatat aaagaggcca 180
 cgcggaattct gtttttggtg aaaaagctac ccaacgtttt ggacacgtn gagaccaact 240
 cgaattccgg cgctgggggt ccacaaaaca cactagtaa gaactgaccg tggggaccca 300
 atgagaagac agcctgggggt gggaaccaag cctcttttcc cggaacaca gccacacga 360
 gcacgcccag cttgaacca cccaaaacct ttgagaagtg cccacaactt tctgttttg 420
 gcccacaacc ataggcaaca gacacagctc aatccccacg acccatagcc cacaagcacc 480
 cccacaaaaca ggcttgatct acctcaaac cctacacacc taggacacag acaagggcgg 540
 gcccacaataa aataacacga aactgcccta acaagaagt gaacctaggt cggtttccac 600
 ccagccatga caagcccaat ggccatcaaa agcatcccca acccacaac gtaaccaagg 660
 gggggggggg aaaccactat tggaaaatga aacgacgaac ttttcggaat taaaacaatc 720
 ggaacaaaacc aagggttttc ccgcgaagca aaacaagccc acgactcgac cggaaggaat 780
 tgaacatatt cggcctatc accaacggaa gccaaaggta attactcgcc gaattcaaaa 840

cgccggtatt ggacagatag caaagtaagc caatgcgagg taaaccaacg cacacggcag 900
cgactgaacg cggacactca cccaccc 927

<210> 5296
<211> 488
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5296

agatctgtat atactcgatt gtatcataaa nttctcctct taatctataa ttgtatatga 60
tgtcatggta ttgaaaatac tgttatTTac atccggaggg ganatttgaa tccattctat 120
tgaggagcct ctatagaata ctcnagcttg tgcttgTTTT atttaatatg ccttacgac 180
atgtagaaac ttatgtgtgt tcctactatg aacttgagaa tacaaaagtt gatgcaaata 240
acaaagctga gattttaaag ggaactaagt atgccttacc taatatcgcc ttttttaact 300
ggctttgagt tggaacacgt cgatgacttt gtctgttcac ctgaacctat taactaatgc 360
ttcacaattt gtgcttatga gaccttggaac cgatcttatt ggttcaatcc atggtgttca 420
ttatgctaac gtctcttaac actttttgtg tgatgatact gatagtgata cttcttataa 480
tgttgtgg 488

<210> 5297
<211> 834
<212> DNA
<213> Glycine max

<400> 5297

cgcaaataa tgcaccacc cggaccccaa gtcaccgaca gccgcagctt cgagccatca 60
aagggcacac ggaacccccg agccccagaa agcgcataag gacacggggc cctctggaag 120
aaciaaggcc ccaaccacc ccaggccaag cggggaacaa gtaaaaacga aaggcccagg 180
gaggcacaaa tcaatccgaa aggcaccaca tggccccaca gaaccggag agaaattcaa 240
aagggcataa cgcataacac agaaggcagg gcccggcgca caaacagtct gcacgaccgg 300
gaaagaacaa cggaagctgc acagacagtc caaaggaaac aacgcgacac agggggaaaa 360
gggcaagacc acaggatagc aagacgctca gaaagcaaca aacgcagtct ccaaaacccc 420

caaagggcag aacggggccca cggaggggcca accaaggccc cccccaacc agaggcccgg 480
aaggaacaac caagacagcc ccaaaaacaa aagccatggc cgggaccccg agggcacaac 540
caaaccccc aagaaccgga ccccccgaa gggcccaacg gaaccccggg acaatcaaaa 600
ggccaaacac tccaccgaa ggcggcaccg ggcccaaaaa gaacgaacc accaaaagaa 660
cacaaggaaa cccgagccgc gaaagcgcg aacgcacccc gcggagccca aaagagccca 720
cacccgcaag cggcgccgaa aacgaccgac agccccgca acacaacgcg ccacaggaac 780
ccacggggac gacaagcgca cccaacacg cacgaacgca cagcgaacgc accg 834

<210> 5298
<211> 240
<212> DNA
<213> Glycine max

<400> 5298

tctatgagga ggtcaacttg gagaacgatg ctatctgaag aggcttttca cgacgaagta 60
tcttgtagaa aacatctttc aagtccctgtg ataaggggtg aacgctatga gaaccttatc 120
atggttgctg atgaaaatga tcaactctgtc tctttatcgt attacttttt tccacagggtg 180
gctcattgtt atttttcata taccggagtg gagcctcact attttctttt ccttgggctt 240

<210> 5299
<211> 912
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5299

gctgatagag tagataatca tctacaaata cagcacagga cattgatgat tcttcaggcc 60
cnncccttgg aaatccgcc ccccgaaata taaattggac gaaaaaaca gggtttaaaa 120
tagcccaaag cgtaccgcg ggggagaggt tgtttattaa caaaaccca caaccaccc 180
aagtcgaagg ataataaggt aaaaccgggg tggccgcata gatgcgcctt gcatcaacta 240
attgggcttg ggccgaccg cgggataata aaggaggaaa accggaaggg cccagcaac 300
aaaagaaatc ggcaaagcac atggcacacg ggataagcca aacatataat gtcaaataaa 360
agaagacgag catcaaaaac aacaccaca tagaacaggc ccacgattag gcagaaaaat 420
agaggaacgt tcatcagac cgctattgac gacaataagg actgccgaaa aaatagttag 480

<212> DNA
<213> Glycine max

<400> 5302

tctcgggtcc tgctgggaac gcctctagct caacacccgt gcagcctaag gcacccaccc 60
agaggggaagc tcccccaagtt ccaactccga acgcgactcg accggccggt aattccaaca 120
cgacaaggaa cttccctcag agaccgttgc cgggaattcac cccgctccca atgacgtacg 180
aagatcttct accatccctc atcgccaatc atttggccgt ggtaactccc ggaaggggtct 240
tcgaaccccc tttcccgag tggtatgacc ctaatgcaac ttgcaaatac 290

<210> 5303
<211> 290
<212> DNA
<213> Glycine max

<400> 5303

agcttatgag aattccaagc ttataagca aaaagtaaaa atctatcatg acaaaaagct 60
atcaaaaagg aatttttagt ctggtcaata ggtattgtta tttaattgtc aattaagatt 120
gtttctaggt aagcataaat ccaagtggc tggaccattc atcatcaaag aagttatgcc 180
acatggagca atgatattgg aagaccaac caccaaaagg acatggaccg tgaatggtag 240
caagaggata atcaactgtt tccagctgca agaggcttga accataaaaa 290

<210> 5304
<211> 289
<212> DNA
<213> Glycine max

<400> 5304

tctcgggtca tactgggaac gcctctagtt caacacccgt gcagcctaag gcacccaccc 60
agaggggaagc tcccccaagtt ccaactccga acacgactcg accggccagt aattccaaca 120
cgacaaggaa cttccctccg aggccatttc cggagttcac cccactccca atgacgtacg 180
aagatctttt gccatccctc atcgccaatc atttggccgt ggtaactccc ggaaggggtcc 240
tcgaaccccc tttcccgag tggtatgacc ctaacgcgac ctgcaagta 289

<210> 5305
<211> 450

<212> DNA
<213> Glycine max

<400> 5305

agctttacat cagatttttag taatgaccca ctaacctaga attaaaataa cttaatgcc 60
ttaacctatt gaattaaaag aacttaatgg ttgagtgtaa ctgaaattgt ggcaacccaaa 120
agtctgatgc ctgggttgcc aattggggccc ttattacaac ttgaactaaa cctaactaaa 180
gccttttttag ttgattaacc caaaacatat ttttggtcag ccaactttac aaggattagg 240
ccattattta gacaaactga acactctaaa attgagacaa agtggtgcca tttagtcctc 300
ctccatttgg gccatgatac aactcacaac cttggacttt tctccttgaa acttgggctt 360
gtattcaa at agtatgtca acacttggtg agacgctcga aattgaacaa cggatgcccc 420
tcaaaaatta aaatgggtcat aacctttcac 450

<210> 5306
<211> 283
<212> DNA
<213> Glycine max

<400> 5306

tgtaggatta tgggggtaccc atcacatgtg gtactaggtg gcggtcgggc gatggtgcac 60
aacaagtttt ccacatccac aatgcgcgca taagcccacc atcccctgtt gccacactcc 120
atctgagctc acgtactccc acgtagccca tctcctcgtt tctctcaaca ccgggtcccc 180
atcaatcctc ccaagcttcc acaacatcca agcaaaacag cattcaaacc gcacaagcta 240
tcacagccaa gcaaaacaga gcaaaggcag aaaactctgc caa 283

<210> 5307
<211> 434
<212> DNA
<213> Glycine max

<400> 5307

gcaagcttct ttgtggggaa gcataagatc ccagtgaaca tcttccaatt tgctgatgaa 60
actagcgtaa tggagaagct tctatggata atgtcaaagc tgtgaaggcc attcttagaa 120
gctacgagat ggtttttaggc ttgaaaatta actttgccaa aagccacttt ggagcaattg 180
gacaatctga agaatgggtg tgttctgctg ctggctatct taattgtgcc atgctccaat 240

tcccccttttg ctaccttggg ttgcctatag gcattaatcc gagaagaaag atgggatggg 300
 agcctatcat aaaaaagttt gaggctaggt tgaacaagtg gaatcaaagg agcatctcta 360
 tggctggaag aatcaccctt atcaatgctg ttttaacagc attacccttg ttttacttgg 420
 ccttttacag ggct 434

<210> 5308
 <211> 237
 <212> DNA
 <213> Glycine max

<400> 5308

gcctcaccat tgtcacgtgt ggatgcatca atcgtctgct gaggctatac cagacatctt 60
 gcgccacgac ttcaagctta ccataacttg cctgcgctcc ttcttgctg ccgtatgtaa 120
 cggagtcggt catacttgca tgttcgacga cttgcatgct atgtcactact atactgtgcc 180
 actgtgagat agattttacc cctgctctct ttcacatgat cactcacttg attgcgc 237

<210> 5309
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 5309

agcttcatca aatgaaacaa agaaagactt attaagtcac ataattctac taaccaccat 60
 gatgtgggttg tttatcaatt ctcaactcaca tctactcat ttccatttct aattttgtaa 120
 tcagttatca ttggtcagct gtcattggaa cttccaaaat tcagtgggtca tacaacattt 180
 tagtcaggat gacttttggg agtaccctc accatagtac aatggcaggc tctaccaac 240
 atggttatgc ctcacatttg tcgggatttt caagttagca ttatggaaaa cacaaccaca 300
 aatgcaccac cacattccca agaaagaaca agtcagccag caaacctcag taccaatctg 360
 tgtggtcacc caaaaactct gaggactaat tcttcaatga ctttcccat ggggattcgt 420
 cttttat 427

<210> 5310
 <211> 284
 <212> DNA
 <213> Glycine max

<400> 5310

ttgcaaaagc cttgttgatt aagggcaaga ggtcaaaaca ctttccaaac catgtcaagg 60
acaaggtctc tgatccaggt ttcaaatacca atgctaattg gtcaattgat ttggacacat 120
aggatttaaa cgcaagaagt gaagatgata actcctctgg ttgaggatgt gtaatggcat 180
gggtggcgatt ctccagcttg aagttgaagt aacgttttgc aagtttctct gtcaaaagta 240
ccattagtta ttggaagcta actagaacac agcgatgatg atgc 284

<210> 5311

<211> 439

<212> DNA

<213> Glycine max

<400> 5311

agcttccaca atatccaagc aactcaatc caactatcat gaactaccct aaaccaagaa 60
aatagggcat agcagaaaac tctgcccaca acacattcac atattacagc tttccttact 120
caaataccct tgtaacgttc ctttcgttcc gattcgttaa ccgttggatc gacttgaaaa 180
ttttactgga ggttcctagt acataagtct acattttgac cgttgggatt cgctagaaaa 240
tgtccagaac ccaatatgta ctacctttcc cataaccagc aatgcacaag catttttctg 300
cacatttaga aaattctgct gcacaaatct gacagctttt tgctgcacaa tttggcagat 360
ttcgaaatcc atcttaccca catccaatct ttctcaaatt ggatcctaca agtcctaaat 420
catgtataaa tcatattta 439

<210> 5312

<211> 284

<212> DNA

<213> Glycine max

<400> 5312

tgaactcctt ccatataggg acctagatga gctagtccaa ctttgtataa gagtggagca 60
acaacttaaa agaaagcctt cttcaaaatc ttatggcttt cactcttata caaggaaaga 120
caaagcccaa ggaattttgg gggcttcacc ttcaaaaccc aaggaagata agggtaagac 180
cataaagaaa tccaccccta agactagttc ccaagaaagg actagcaaca ttaaatgctt 240
caaatgtctt gggagaggtc acattgtctc ccaatgcccc acaa 284

<210> 5313
 <211> 551
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5313

agcttattgt taaacaatca ataaatttag ggtaaatgaa cctattacat tatanatgaa 60
 ggttatgggt gaaaacttga caatgtctcc tatttgggga aagtcttttt gaccgttaga 120
 tataatgatt ttaaaattaa cggaagactt aactatgtct cctatcaact tctcaaaaaa 180
 aaatgtctct tatcaatttc tcaaaaaaaaa aaaaaagttt cctatcatgc ttataaaaaa 240
 atgtctccta ttgggagaaa atcgtttttg accactagat atgttggttt taaagtcaat 300
 gggtgacatt ttttttttcc ttttattttt tcatttttct taatctttct taatttacct 360
 ctttttcctt tatgtattcc tttttctctt ttgctagat ttctctcaac atacttttta 420
 gtaggtaacc caatattact cttaaattgaa tttactctta aaaatatatt ttgagggatc 480
 catccaaaaa ttaaattccc tcttagaaaa accaattgaa gaatggaagt ggcatttttc 540
 taaatttttt t 551

<210> 5314
 <211> 500
 <212> DNA
 <213> Glycine max
 <400> 5314

agctttttat tgtaatcttg aaattcagga caacactctg atttctgaaa tttttgggat 60
 atttatgggt attgaccagt cccttttcca tgacttaacc aaattacca gtgacgggtg 120
 accatttgaa agcactactaa atgacgactg gaaatttgat ttctctgccc atgatgcccg 180
 ccagttgggt tgcaccaaca atgcagatat gaccggacgt cttcttgctg ggtcattggc 240
 ttttgaaagc cgcactcttc actatttaat tgtgctgatt ctgcttcac ggtcttccaa 300
 ccttgcccag gtttctgagg aagatctaata tatcatgtgg gcccttcata cagggcgta 360
 acttgactgg gcacacttag tcagatatcc catgcataag gcattgcaaa taaatgctcc 420
 actaccatat cccacacttg tcaactctctt tttccgccat ttcaaaatcc ctcttgatct 480

gaacccttat gttccaatca

500

<210> 5315
<211> 280
<212> DNA
<213> Glycine max

<400> 5315

tcggaagaaa gtgatgaggt acaagcccta aaggcaaagc ttgaaagagc cggggtagtc 60
aaagagaagt tcaagtccat agccatcaaa gtctgaagag agtatgatga actaaggggac 120
gtcaatatgg ccaccgatga agccttgga tgagaaacca agaaggcccg aaaggaagaa 180
cacgacaaa acaagttttg aggggcttta tagggcagca atagtgaagt caagctccaa 240
agaggtgaaa ggaatcatca cgggtcaaag gcatgatctt 280

<210> 5316
<211> 353
<212> DNA
<213> Glycine max

<400> 5316

agcttcaccg gatgatgccg atcgaaacatt tcctaatacga catcatccaa ttgttattca 60
gggattgaat agaataaaca atggccagtg tcggctctta tatggccccc actgatattc 120
ttcagccgac attgggcaat ttcttttaca aatgggtggc gataatgttc tttttttacg 180
ataaaggaag ttttttgttt tgggtgtgcc taaaaaattt acaacttatg tcggctaggt 240
ttttccgtgc gagctcagcc gagggttcgt tccgacggac actggcatgt tgttcttctc 300
atttaagagg gcaagaaaac gttggcccat cccgacaaa acaaaaaaaaa aaa 353

<210> 5317
<211> 276
<212> DNA
<213> Glycine max

<400> 5317

tccatcaagt tatgaccatt tgaatttctc gagatcttcc gtggttcaat ttcgggcgtc 60
tccatatgtc atgtgcctga atcggacctc cgtaagaaaa tttatgacca tttgaacttc 120
tctagagctt ccgttgttta atttcgagct tctcgatata tgatgtgcct gaatcggaca 180

tccgagtgaa aagttgggac aatttcaatt tctccagagc ttcggttggt caattttgag 240
 cgtctcgata tgtgatgttc ctgaatcgga cctccg 276

<210> 5318
 <211> 894
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5318

naacacggaa aggaactcta cataaccacc agacaagaaa natgaatcat gacgaccgag 60
 gaccttagag acgacccgca gcatgcaagc cgagcggtat catgcatgct aaggcaacag 120
 agaagccgaa ctactcacg aatgaacgcc aaggggaaat acaagataaa tccccccac 180
 ccgaacaaaa gtgaactctc ggtgaagaca cctcgaccg taaagaagct gggacgagcc 240
 caaacgggaa aaagaattga accgcaagaa aacacccgat ctgggtggga aaaaaaaaaa 300
 acggggccaa accaaccacc gagagcaagc atctggaata aaaagggcat cagcccaccc 360
 ccacatggaa cacacaaggc gcccaaacag aaaaaaccca accgaaaact aatatcaaac 420
 catcaaaaac ccaaagcgcc cccacaagaa cgatccaagc cccgcaaagg cacgggtact 480
 tcacaaccac cccatgcgaa gcaagaggaa cccacatgca gacagaaacc ccaacatcac 540
 ccctaaataa gaacaatgca agccaattcc ggaaaggaca acgaaaccaa aggggggcaa 600
 cacacacggg tccggcccaa caaccaaaaa agggggggcaa acagacagcc agcgtcaggg 660
 ggggggccag caaaaaaaaa ccgaccgcaa aggagcaaac ccgagaggga aaagggaaca 720
 ccaacagcga caggtcgagg ataaaaaaaa tatccctcta acacaaagac aaatcccgtc 780
 ataggaaccg gcgaaaaaaaa cactctgca aacactcgga gggcagaaga aagaaaaaca 840
 caacacaccc acacactcac cctccccta tcaggggggg gggacccaaa cacc 894

<210> 5319
 <211> 926
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5319

taccctccga attcgtactc taacttgaat acacnctccc cagtcgccc nttganttga 60

ttaccttcca agacctctan aattgacctg acagccccgc agcttcaaaa aaagaggccc 120
 tcccccaattc cttattttca taacggaatt ctctcaatag acccgcgatc ttttatggag 180
 aagggtaccc ccccccgcaa acccgaatgc aaatttttat tggggccata gatctaaata 240
 tctgggaagc catagaaatt aggccttatt taccacccc aataaaaaaa gtttcaataa 300
 atgggtcattc ctccagtga agcataactt taaaaaaacc ctcacataaa tgggtctggaa 360
 aagatataaa accagttcaa ttccacttaa aagccaaaaa cattattacc tctgccttgg 420
 gaatggaata atatttcagg gtttccaatt gtaagagtgc tcagaaaatg tgggacacct 480
 cttgattaac ccatgaaaga actgcacatg tttaaagatc tacgataaat gccctaactc 540
 atgagtatga attattttaa atgaatgcac aaggaaatct tcaaaccgc caaagaaaat 600
 taccctata gtaaactcatt ttacaggctc ttgccaagaa tttcaaatg aagatcccat 660
 atacacaggt gtaaaatctt taattgagaa tggccacccc aagttaacgg cttacttga 720
 ccaaaaaatt gtctatatat cctccccac ctttctttgg aacttggagg accccaaaat 780
 ggactcttga gattcctctc acctaagcaa atggccccga caaaaagggt tatgcccttt 840
 aagactcata cctcattcca aaagaaaagt atccggaatg tgactcaaac aagaaaatgt 900
 acctctactt atctcaaaaa ataccg 926

<210> 5320
 <211> 279
 <212> DNA
 <213> Glycine max
 <400> 5320

tgggtgatgt tgcgcgtact gatgggtacc atgaggtggt tgctgggggt tgaccacgc 60
 ggggtgttgaa aagacagcat gggcatctcc tttcttctt tttgcccctg ttgcccgcg 120
 tcttttggca ttgcggtttg tggaggaaac gtaatccaac tttctcttt tcaatccaac 180
 ctgattctt ttcccagcaa acaccagatc cgcaaagctg gacggcatgt aaccactag 240
 cttctcatag tagaactg gcagagtgtc taccatcat 279

<210> 5321
 <211> 517
 <212> DNA
 <213> Glycine max

<400> 5321

agcttcttct tgtttcttcc cccattttta aacaacattt ttcttaatta cctcattcaa 60
aggtgcttgc aaggtactaa aattcttcac aaatcgtcta tgaaaacttt tcacctcagt 120
cacacttcta ggtgcaggcc actcttggat agccttgacc ttttctttat caacttgaac 180
ccctttggaa cttactacaa aaccaagaaa cacaacatgg tctttgcaaa aaaatacatt 240
tttcaagggt agcatacaat tgctccttcc taagcacaca caacaccgat ttttaagtgtg 300
caacatgcaa atcaagggtt gtgctataaa caaggatatt atcaaagttc accaccacaa 360
atttaccat gaattctctc aagacatggg tcattaatct catgaaaatg cttggagcat 420
tagtcaaact gaaaagcata accaaccatt catataatcc atatttagtt ttgaaagcgg 480
gttttcattt ctctccttct ttaatcctta tttgatt 517

<210> 5322

<211> 286

<212> DNA

<213> Glycine max

<400> 5322

tcccagctat ggagagctaa atcctcagtt ggttcttctt atgggggtact tgatgtaaatt 60
actttcatat ctatttaattg atgtttcatg tggttactgt gttatcagta cttaattcta 120
atgtgccttt gccttgatca cataactgca accgtagtta gggtcactca acattgggaa 180
atggtttgat ccttaaaacc tgataggaca gagctagctt atcgtatttt catgagacat 240
cagggtacga taacctagt tttgatatgt tatgtcttaa tgcggt 286

<210> 5323

<211> 461

<212> DNA

<213> Glycine max

<400> 5323

gcttaaggac tatgattatt caacatcaca gaggtttgtg actactggtg gtgatttcgg 60
caaccctgt tcgcaaaccg tggcgaattg gtctcccat tgagaagtat gaggatgctt 120
acaagttggt ctactgtcca agtgtgtgca acgattgcag ttatccatgc ggtgatattg 180
gaatatacca agatgaatat ggcaagcgtc ttgctctaag ttctgaacca taaaagtga 240

agttccagcg ggcttaatta ttgaattgat aacaaaacta attaaagaat aatgaataag 300
 tgtaatgaac tactttatgc ttttgctgca tatatggtaa ttctcatgtt gagttccttg 360
 ccacggactt gataataaat aaacaagtta ctttctatct ttagtctttc caaaatttct 420
 tgtttctgtt cgtctttgtc attgtttgca tttgggatgc a 461

<210> 5324
 <211> 291
 <212> DNA
 <213> Glycine max

<400> 5324

tttattggat tctacatttc aagagaaaaa aacagctgaa actcttgtga gtaaagggtc 60
 tccaaagaaa accaaaaaca actgaacaag caacaattgc agaaacacaa aggaatattt 120
 gcattcattc atcatcattt catctctaata tctctgttcc aacaaatcat gaaacaacgt 180
 gtctctgtta gcatcttcag aaacttggca atgttccata aatggataag ataactcgaa 240
 aataaaagct caaaactttc tgaaacaaat gagaaaaatg gtccattgat t 291

<210> 5325
 <211> 326
 <212> DNA
 <213> Glycine max

<400> 5325

agcttgtttc agaggcgtgg agtttactat cagataaggt caaaagacta gcatataacc 60
 agaacaggag attggaagga tttcacgata atgtcccaa caagaatggg tatataaaac 120
 ttaacaagaa tgcaacttcc agcatgagaa caggaaataa tgatgctcgg gcacatccac 180
 atccgcatac accctccatt cctcctccac atacaaatgc tggtaacctt tggactatct 240
 gtaataagtg caagacacat tatgaatatc tcaggacata tttgaatcaa acccttttat 300
 gtcccaattg taaacaagct tttgtg 326

<210> 5326
 <211> 271
 <212> DNA
 <213> Glycine max

<400> 5326

tggacaatgg tagggcaatc ttgcaaaaat cctagatgaa tttcctataa aaacctacat 60
gtccaagaaa agaacgtact tcttgcattg aagcggggta aggaagagaa gtaataacat 120
atatcttggc cttattgacc tcaatacttc tactagagac caaatgccct aagactatac 180
cttcatggat cataaaatga catttttcaa agttaagaac aagattagtc tcaatgcatc 240
ggccaagaac tctagagagg ctatccaaac a 271

<210> 5327
<211> 387
<212> DNA
<213> Glycine max

<400> 5327

agcttgagat gaggaagtgt agaaggggtga aacttctctg ttttattcgt tgaccacaga 60
gtggtacctg gagatatgtc gcgggggtca agagaccttg gggacgtcag gtgggggtgct 120
attgcccaaa accaagcttg accaatcccg acccaaccg ggcatagtca gtcagtgaga 180
acctgtgatg tacctaagca ggcgagctcc tggcagtcaa cagataaaaag gaacaaagac 240
cacaaagtaa ggaggcttgt gtggtggctg gctagctgtg aatattgtgt gatatatggg 300
ttatggcctc tggtaatcga ttaacaaggg tgggtaatcg attacaaagc ttaaaaatga 360
aaacaggagg ctaagatggt ctctggt 387

<210> 5328
<211> 283
<212> DNA
<213> Glycine max

<400> 5328

tcaggctgct caattgctcc aggttgctgc atggaagggc aaaggtctgt atggtgggtca 60
gcagaggagc ccaaaccaca aacccttgcg acaggtacag atttctgatt caaggccagc 120
tgggttacca agttgatcaa cgcattcagt ttgccttcaa gcttcttagt ttcagatgat 180
gcaaatgggt ttgtagctac ctgtcgcaac ctacccttca gcggggagggc gacgcgtgac 240
tcgcgggatg cgtgttccac gaaaggaata ctgcgggagt cgc 283

<210> 5329
<211> 716
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5329

agctntgatg caacatttgg agaggttaat gaaacaacga gatgatgcg cccatgagag 60
gttgatcaa atggagaata gagatcatcc tgaagaagaa aggaggaaaa gaaggaatga 120
tggtgttccct aaacaaaacc gaattgatgg tattaaactc aacattcctc catttaaagg 180
aaagaatgat ccggaagcct acttgaggatg ggagatgaaa atagagcatg ttttctcatg 240
caacaactat gaggaggacc aaaagggtgaa gcttgccgcc acggagtttt ccgactatgc 300
tcttgtgtgg tggaagtgat tatgcaagtt gaagtggacg tttccattgg gaaatacaat 360
gataaggtac tttgtgatgt tggtccctatg gaggccagtc acttactttt ggggagacca 420
tggaatttg ataaaagagc ccatcatgac gggtacacca accagatctc tttcattact 480
ttggtgttgc ataaaaaatg tacacatgta gtcggctagg tttttgtcc caaccttacc 540
cactttttgt ttctagccaa attggcttgt tccattattt tgcccggaaa aatttaccct 600
ctttgcaaaa aaatattgct ttcaacttat gccttttttt tagggatgaa ctgaaccttt 660
ttccgcatt gtcggtaaat accccaatta atctttcgcc cccttgccaa tttttt 716

<210> 5330

<211> 280

<212> DNA

<213> Glycine max

<400> 5330

tcaaaaaatt tgaatgttca taacttttca cacgaatgtt ccattttggg acataagata 60
tcaagacgct tcaaattgaa caaccgaaac tctgaaaaa ttccaatggt cataacattt 120
cacacgaatg ttccattggg ggacataact tatgtatagc ctcgaaattg aacaacctta 180
gttctccaga aattcgtaat gtcataacat tttactccga tgttccattc gtgggcctat 240
tatatggaga cgctcgaaat tgaacagcgt gatgttaatt 280

<210> 5331

<211> 444

<212> DNA

<213> Glycine max

<400> 5331

agcttataat atatcgatag gctcgaaatt aaacatcgga aactctcgcg aaattcaaatt 60
 gggcataaat ttccacacgg atgtccgacc cgggcgcata atatgtcaag agtctcgaaa 120
 ttgaacaacg gaagctcttg agaaattcaa atgggtataa aatttcacac ggatgaccga 180
 ttcaggcaaa tcacatatcg agacgatcag aattgaacaa cggaagctct tgagaaattc 240
 aaatgggtcat aacattttatc tcgaatgtcc aatttaggcg catcacatat agtgatattc 300
 gaaattgaac aacagaagct ctcgagaaat tcaaattggc ataacttttc aactgaagt 360
 ccgattcacg gttataatat atcgatacgc tcgaaattaa acatcggaac ctctcgagaa 420
 attcaaattg tcatgaactt ttca 444

<210> 5332
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 5332

tggccgtata ggaatggcag tcacagcatg ggtatatgcc tctatctcac cctcttcatt 60
 tgccccagtt ttgtcaatcg tcctactagg atgatcaaat ttgcctcttt tcggatccac 120
 ttggatcttt ttgctagcga agaccaaatt tgtaaaactt gaaggtgcgc agcccaccat 180
 cttttcatag tatagtaccg attatgtgtc taccatcacg agtatcgact ccctttccat 240
 tattgggggt accacctgtg ccgccagatc cctccacctt ttgggg 286

<210> 5333
 <211> 608
 <212> DNA
 <213> Glycine max

<400> 5333

agcttgggtc gaggtactta cccgttgaag atcgaagaac gatgaagaac gactgaagaa 60
 cgtcgaagaa cggttgaaac ctttgcgaaa ttcttcacgg aaaacgttac ggaaacgttt 120
 cggaagcgcc tcggcttaaa tttcttcac ggaaacgatt tttccaagca aattcgaaag 180
 agagagaagt gccaaagggg ctgaaccctt ttctttctca cttctctccc tatttatagc 240
 aaaatagggg aggtgcttgc cgcccagctc gccagggcga gccaaagttgc ttcttcaga 300
 agcaacagcc ttctggagga atattctgga gggcccaagt gggcctgggt gctatttgca 360

ccccatttt tactaagtac acccccctct gctttttttt ggtgattctt tttttgtaaa 420
 gttacggaaa cttaccaatt tctgaacgac acttgttttt tttccggaat ggtaccgaac 480
 cctgcggatt acataatcat tccccctttt gacttacgga aggtacggga ccttccttaa 540
 ttatgccacg aagcttccat ttgatttccg gggggcaccg aaattaccgg ttggggcata 600
 atattttt 608

<210> 5334
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 5334

tgacatgagg aagcgtggaa gggtgagact tccttctttt attgttgacc acagagtggg 60
 acctgaagat atgtctcggg ggtcaagaaa ccttggggac gtcaagtggg gtgctattgc 120
 ccaaaaccaa gcttgaccag tccctaccca acccgggcat attcactcag tgagaacctg 180
 tgatgtacct aaacaagcga gctcctggca gtctacagat taaaaaacta agaccacaaa 240
 gcaagggggc ttgtatggtg gctggccaac tgtgaatctt gtgtga 286

<210> 5335
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 5335

agcttcaggc tgttcaattg cttcagattg ttgcacaaaa gggcaaaggc ctgtgtggtg 60
 gtcgacagag gagcataaac cacagagtct ggcgacaggc gtagattttt tattcatggc 120
 cagttggatt accacgttaa ccaaggcatc tagtttacct tcaagcttct tagtctcgcc 180
 tgatgaagat gaatttgtgg ctacttcatg cactcatcta attgcaataa catcacttct 240
 ggcactaaat tgctgggagt tggaagccat cttctcaatt aaatttttgg cttcagcagg 300
 ggtcatgtct ccaaaggctc caccactggc aacatctatc atacttctct ccatgttgct 360
 cagtccttca taaaaa 376

<210> 5336
 <211> 279

<212> DNA
<213> Glycine max

<400> 5336

tgtctcagcg tttatgcgag acagagacca acatgttagc tatcgtcgcc aagtaccaag 60
aagagttagg tctagccacg gccacgagc atagaatcgc ggatgagtat gccaagtgt 120
atgcggaaaa agaggctaga ggaaggggtga tcgactcttt acaccaagag gcaaccatgt 180
ggatggatcg gtttgccttt accttgaacg ggaggcaaga acttccccga ttgttagcca 240
aggccaaggc gatggcagac acctactccg cccccgaag 279

<210> 5337
<211> 856
<212> DNA
<213> Glycine max

<400> 5337

tttgaattga tatccatctc gaccccgga tccttatagt cgaccctgca gcattcaagc 60
ttcttgtggt accgctcttg gggctcaaaa atacccaaaa caaaatcttc ttattactat 120
ctattttgaa ttctttacct cccgaacgga caacctttaa attggtgctt gtccccctct 180
ttgagaatga ggaggatctt cataggactt catccaattg atgtttttcg cccagtttat 240
atatccaccc cccctttttt tttgtgacta acaatgtaca tgttgtctaa cgcaacatct 300
atgatgatga cctcaagggtg atggttttct cacaccgtgt atccagttta gtttttttgt 360
gggtggacgat gatcctctat tattaccgag acggttccct atgcggtgcc ccttgaacag 420
ttaacgattt atgtctattc tatggaggct attatactct attatactga aactatgtac 480
ttattttaaa aagccattct taccggttcg acccactgat cgatttatag atctgtatgg 540
tcacttaaaa gttgctaagt tcggtttgta tggatctaca gtggccaatt atagatatga 600
tctaatagcca taaagagtgg atctatgttt tgcaaacatt gaaacgtata ctactagac 660
tacgattcct aatttccta catactgctt ccatccact cgccttgtgt atctattgca 720
actctacagt tttcattcca ttcgatctgt tcattttatc tgaactgact cggtacgggt 780
cgatgccact ctacaggta tacctagata ctagacacta aacgttcgag ctaaaattac 840
ttaccatcaa tatacc 856

<210> 5338
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 5338

tgtaggatta tggggtaccc atcacatgtg gtactaagtg gcggaacgggc gatggtgcac 60
 aacaagtttt ccacatccac aaagcgcgca taaaccacac atccccctgtt gccacactcc 120
 atctgagctc acgtactccc acgtagccca tctctcggtt tctctcaaca ccgggtcccc 180
 atcaatcctc tcaagctttc acaacatcca agcaaaacaa cattcaaacc gcacaagcta 240
 tcacagccca gcaaaacaga gcaaaggcag aaaactctgc 280

<210> 5339
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 5339

agcttggtta tctccttctt cactacatca ataatcacgc ggttgagtct tctctgttgc 60
 tggcttactg gtttagctcc atcctctcca tttattcgat gcatacatgt ggatgggcta 120
 ataccacgaa tgtccgccag ggtccagcct atagccttct tatgcttctt gagaactaac 180
 aacaacttct cctcttgctc atcagcaagg gaggcagata taatcactgg aaaactcttg 240
 ctatcatcca agtaagcgta ttttaaattt tatggcagag gcttcaattc tgggtgtggtc 300
 aactggacag tggtagaaag agatgggttc ttagccttta cctcataaag aaaagcagat 360
 gtatgtgtac tttttgaaac tggttagtcc tatctgactc tataaaatca atctcaa 417

<210> 5340
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 5340

tgtctcagcg tttatgcgag acggagacca acatgctagc tatcatcgcc aagtaccaag 60
 tagagttagg tctagccacg gcccacgagc ataagatcgc ggacgagtat gcccaagtat 120
 acacggaaaa agaggctata agaaaggtga tgcactcttt acaccaagag gcaaccatgt 180
 ggatggatcg gtttgcctt accttgaacg ggagtcaaga acttccccga ttgttagcca 240

aggcccaggc gatggcggac acctactccg cccccgaaaa

280

<210> 5341
<211> 490
<212> DNA
<213> Glycine max

<400> 5341

atataggggg agtaaacgca catttttatac tatatacaat tgtttggtgc ttgcttgaat 60
cttgatttca ggtattgtat tgtcatcatc aaaaaggggg agattgtaga tgcaattgct 120
tttgatgttt tgatgatgat catgatgata tgatgcaatt gatgaaaatg ggcttttcaa 180
gattaaattc aagacaatac ttcaagatta caagtcacaa catcaagatg atcactagta 240
tattaggaag ggaattccta attgaattag caaaagggtt ggccaagtaa tttaaattaa 300
aaaatgtttt acaaagggtt tactctcttg taatcgatta ccagaagatg taatcgatta 360
ccagtggcca aatatatttt ataacagcta ctaacatttg aattcggaaa tttagactgt 420
gtaatcgatt acacaatttt ggtaatcgat taccagtacg tagtaaacgt tttaatttaa 480
attttaaaag 490

<210> 5342
<211> 572
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5342

gtgaaattaa acggatcttt gttggtggag tattaatttt taaaagatta aattctaatt 60
ttgatctcta gttttataaa tctacaattt tggctctcta tattttaatt gatacatttg 120
attccctgga ttcttaaact tgtgattttg gttgtttagt tatctggcat ccattgacgg 180
ttgaccagaa attgcttgac taaagagttt aaaatatatt aaacagattt aggcgggttt 240
caactgccgg aaattgcttc tcaccctttc cccgctaaga caaatcagat cctaattctc 300
aatggcacag acaaaaccaa atccaccaat gaaccaattt tttccgacac tagcaacata 360
attaactcaa aatttgtaag cctctgcgct gccgttagta aatttatatg attttaaatc 420
aattntatit naaatatcaa attcaaataa agtattaaaa taaaaaata tttaaactta 480

ttttaattta tagaaactaa tatgtaataa taacgcgtct tttaattttt tatatattat 540
ccaatcacaa acattataaa gttattaatt tt 572

<210> 5343
<211> 462
<212> DNA
<213> Glycine max

<400> 5343

agcttgctaa cccatggaag cttgataacc cattcttctt tccttaagac atgatgcata 60
agcctcataa aggtgcttgg tgcattaatg agcccaaaaa gcatcactag ccattcatac 120
aaaccaaact tgggtcttgaa agcgggttttc cactcatcac cctttttcat cctgatttgg 180
tgataaccac ttttaagatc aatttttgaa aaggtattgg caccatgcaa ctcatcaaga 240
aaatcatcaa gtctaggaat ggggtgecta tactttacag tgatgttggt gatggccctg 300
caatctgtac acattctcca tgtaccatcc tttttgggca ccaacaacac tggcacaaca 360
catgggctta ggctctcttg gacccaaccc ttctccaaca attctttaac ctgagactct 420
atctctttag tctcccgagg gttagtecta ttggctggcc ta 462

<210> 5344
<211> 373
<212> DNA
<213> Glycine max

<400> 5344

aatcagagca caagagcttc aagtaggtgc tccttaaacc tccattaatt ttttttcttt 60
accttctctt ccattgttgg ttcttcattt ttctccatgt atctcctcac atgtcttggt 120
ctaaatgttg ttaacatgat tcttttaaagt ttccacctat taaacttgct atagaagcta 180
gatttgattt tctatggctc aaatttcttg ttcttggtct tgaaccatga attgtgatga 240
gtttaagttc ctttgagttt tgccttgcta ttttttttgt ggctgaaacc taaaccatat 300
aattcttaca aaaatattaa agtagaagaa aacctcaaaa atctatagag acttggtcac 360
ctattgtagt ttt 373

<210> 5345
<211> 536
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5345

agcttgctg tccgatgtag cagtaatgat ggcccagatt atgttgggga acggttacga 60
accggaatg ggtttaagca aagacaacgg cggcataact agcctgataa atgccaaagg 120
aaatcgtggg aagtaggggt taggctataa gccactcag gcggatatga agagaagcac 180
cgcggaagg aaaagcagtg gccaaagctc gcagttgaga caagaaagtg aaggaagccc 240
gccctgccac ataagcagaa gctttataag cgcaggtttg ggagacgaag gtcaagtggg 300
cgcgatatac gaagatgatg ttccgagtac attggatttg gtacgaccat gccctcctga 360
tttccagctg ggaaattggc gagtgganga acgccccanc atttacgcaa cgagcataat 420
gtaaaccttt acgggtttta aagctctata gttgggccta cgcttttagaa gttttccttt 480
tgtaaggct ttgtgtcttt tgtttttgaa ttataatata aggatctttc ttcac 536

<210> 5346

<211> 463

<212> DNA

<213> Glycine max

<400> 5346

tcagaccaa gcaactcaa atctaggcat ctaaaacccc tcaatttagt ggattttcaa 60
ggtttgagaa gtgaaaatga gaatggggta aatttagagt aaactctcac ctacacaag 120
tctataacat caatctaaac tttctcaaac tgattttacg cctcaaattc ccccgatca 180
aaatttgact cctcaacacc caattttacc ctaggaatgg ctcttgctt cactttgggc 240
atttgtttt ctctcttgca cagtccaagc tttctcataa gtcctaaatg acatttcaa 300
ctaggattta ctactttta cctccattta cactgaatc ccgttttagc ctccaactc 360
tcaaagctc actctttttc tactcataac actacattct cactttctaa ccctaggtta 420
actctaccct tcacccctag caatattcca tcagcaattt cag 463

<210> 5347

<211> 574

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5347

agcttattac tatgccaagg aggaaaagct tcttgtctat gattatctct ccaatggaag 60
cttgcattgct cttcttcacg gttagttaat taatcactct tcttaattac tctcttaggt 120
accttttgac agaggaaaaa gaaatggaat tgagaacaaa tatttaaatt aaaatggtat 180
atgaaagtat gaaactctac cgaattttan gaaatttcta ctcatttctc tttctttcct 240
cacaaatcaa acggaccctt agtccgtgtt tagattcatg ttaaattgatt taaaattatt 300
atgttaaact accaacttac gttaaactgt tatttgata tgtatgttg aacaaacatt 360
ctgcattctg tgttttgaaa caaaaattgt gcatttggac acaagaataa ataagtgact 420
tttgcattga atagaanaac aaacattgga ttntgcttac cttttttttt tattattaat 480
cgaacctaac atatatttaa aggattttgc gtaccctaaa atcactctta anacctaact 540
aaagtcattc aaaatcaact ctgatgttga aaca 574

<210> 5348

<211> 464

<212> DNA

<213> Glycine max

<400> 5348

aaggcgaaaa tgcacttgca cgtcaacca acctgaccgg agctatgtag ttggaagaaa 60
tcaatggtgg agtctgcaca aatggagacg aagaggaaga cctaatagaca gagcatacac 120
caatgaagta caagaacggg tgggactccc tcgtggagta gcatgctgag gaagagaaaa 180
gatataatat gaagtgggta gtttgagaat gtttaaaaat tgagaggtgt atgattcaca 240
tgttttgccc aggggtttat tcaggtttct actttatgac atctcccat tatattacaa 300
gtcattgctt tctacacatc tcatgttgtt ttctacagtt tgatcttctt gtctaattgc 360
cattatgaaa tgtgaagtta cattttggaa tgcactctct tttttcttcc aatttggaaa 420
gtaatataca ttccgaaaag agtgcacgaa gcaaatggg agtg 464

<210> 5349

<211> 551

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5349

agcttcacaa tatgatattt actngttgac gcatatacat cgtatttttc tttgattggc 60
 aggaagacac ttaatgagct tggagctatt gtctccacgg tgcattccaaa gatgaaattc 120
 cccaccctga gggggagatt atgactatca aggtagatga aaagcaagca caatagtgtc 180
 acgcacaaaag cctaaagatg gcaccttate ctcccaccag ggagcttgct aagcctcacc 240
 ccacaatggt tgaagggtact ccaagtcattg agcatgaagg aaagacctct aatctgagcc 300
 ctaaccatat accaagccat cttagatgat gaattcgata tagatccatg caacaacact 360
 tctaacaaaag gcccaaagcc cattgaagag ctctgcaagc tgcagttggg actcaaacc 420
 gggcaatgta catagctcaa gccatgagca cagatgcac gctgatacc tacatcagaa 480
 tgtggaccta ttcgcttggc agccatttgg tatgtcggga atccaccccc acatcatctg 540
 ccacaagctc a 551

<210> 5350
 <211> 552
 <212> DNA
 <213> Glycine max

<400> 5350

tcatgatgat gattcaagta tgaatcaagt agttttgatg atgaaaaaaaa gcccaaaaga 60
 atgatttcaa gattcagtca acaagttcaa gatcaagatt aatttcatgt ttcattgagaa 120
 gaaatcaaga agattcaagt ttcaagagaa gtttgatttc aagattcaag agaaggtgaa 180
 ttcaagattc aagagaagaa atcaagaaga cttcacaagg gaagtattga aaagatgttt 240
 caagaaacaa acatagcaca attttgtttt tcaaaagagt ttttctcaa attttctaag 300
 ttaccagagt gtttactctc tggtaatcga ttaccagttt cctgtaattg attaccagtg 360
 acaaagtttg atttgaaaag cttttaactg aatttgcaac gttccaattg atttttaaat 420
 ggtgtgatcg attacaatat attggtaatc aattaccagt gtatcattga aattcaaatt 480
 atattgtgaa gagtcacatc ttttcataaa atgctttgtg taatcgatta catgggttatg 540
 gtaatcgatt at 552

<210> 5351
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 5351

gtatgggttg gatgttgaat tccacgtgat cctggtgccg aaatgatggg acagcgggtg 60
aaccaaacgc ggaaggtttt tttggtgagg tagccatgga aaagcagagc gtttgggaatg 120
atttcgtaaa tctcacaatg ctattgggaa atgctggtaa aaacacgaat gccaaagcaga 180
tataaatttg aatgaagaat gtataggggc gtgtgaggca acggtcgaat tcgttttggc 240
ttaatattga acgtgctatt aatgttaagt gattcgtttg ggcacgttca gattgctgta 300
gctgctataa ttcctctagc aaacaaatgc ccagcttgcc cctcagtttt tcaaaactgat 360
ttgca 365

<210> 5352

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5352

ntgcggatat ggtcttcgcc ggcgaaatga tcgaagtggg tctaaaaaga ggaaaatctg 60
atcatcttgc tttgataaat gcaaaaaaaaa aaaaaaaaaa aaactggggc aagtgaagag 120
gatgataagg agggagaaac ctatgctgtg actgccattc ttatacgacc aagtttccca 180
ccaacccaac aatgtcatta ctcagccaat aacaaccctt gtcattacc accaccagc 240
catccacaaa ggccatccct aaaatcaacc acaaagccta cctaccgcac ttccaatgac 300
aaacaccacc tttagcataa accaaaacac caaccaagaa atgaattttg cagcgagaaa 360
gccagtagaa ttcaccccaa ttccagtgtc ctatgctgac ttgctcccat atctacttga 420
taattcaatg gtagccataa ccctaac 447

<210> 5353

<211> 501

<212> DNA

<213> Glycine max

<400> 5353

agcttctagt atacgattta tctgaagaaa ttcattttct atcgcacaaac ttccaccacc 60
accaagagca gctaagtact gcaatgcaat tttagctgtt tctgttttcc cagatccact 120

ctcgccactg cgaacaaatt tctaacaatg attattaaca agcacaccag tgaatgtatc 180
 ttattactac tatgaaaatc caatgatatt gggttaggaa catatattaa gtgtcatgca 240
 caaaatgtag ccataaatg cagtaaggag ctgaccttat gataatggac tgatttactt 300
 catctgtaag atacaaaaag aaaaagaaaa cctttataaa tgtctcattc aagtagaatg 360
 caaagattgc aaagaaggga agagaaaggg agaatttcat tcacctctta tcaccttggt 420
 ataaagccga tctgccacag cataaacatg aggactatca ataattctct gcctataagc 480
 tgagacagaa tcatttccat a 501

<210> 5354
 <211> 496
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5354

tgcataactt tgaatggggt attggtagag tttatacgtg taaagccatt taatgccata 60
 actaaggaat aaatttttta gagtataata atgattacaa ttactattgt agttgtgggt 120
 gtaacttatg agtaatcaac catttcagca tgatgtctct gtttttcaaa tgccttgatt 180
 gggaattggt tgaggattga ctttggcata attgggttgtt tgtgtgagga gtgattttaa 240
 ggaaatagta ctttctagca acaatggaag catcaccttt ttattangtg cttgataagt 300
 tgatttttga aagttctaata tgtgctaaac atttgtgata tctagtaatc ctttagaca 360
 ttcatgggtg tcagttggta ttggacatat cagatgtatt cattctacag acttgtttta 420
 tttgcttgat tttgtgaaag tgcccatata ggtaaaaaat gctataatgt ttcaacaggc 480
 actataattg acagta 496

<210> 5355
 <211> 406
 <212> DNA
 <213> Glycine max
 <400> 5355

agcttggagt gagagaaaag agaaagcttg gctgagaatg cgtaaaaaca gagaaaagag 60
 gcgcataata tagcaaggga gtaaaaacct tagatttttag gtggattcta ggtttttgag 120
 tgatttttaa gatcctagag gtggaggaga catccccact actttgtatc tgtcaattgc 180

tctcaaatcc ctcttctga ttgtaaaaag cgcttccttg tgatggaaag ctaaaccat 240
atgttgagga attctgctga gtatttgatg taaactctta tcctatctat ttaaagtgt 300
tttatgtgtt cattgtttct atttgtgctt tattatcgca tgcttgtggc ttgatcactc 360
atttgtatgt gctgctagga gctttagcat tggaaaatgt actgca 406

<210> 5356
<211> 435
<212> DNA
<213> Glycine max

<400> 5356

tgcttctaca attgacatat actttgacaa tgttggggga gacatacttg aggcagccct 60
tcttaacatg agaaggcatg gacgaattgc agtggccaga atgatctcac agtaagatct 120
tgatgagcct caaggcataa agaacttagt gaatatcata tacaagcaga tcaaagtaga 180
agccttcaca gtttatgatt actatcacct ctatcctaaa ttcttggata ctgttttgcc 240
ttacattagg gaagggaaga taacatatgt tgaagacata actgagggtc ttgagaacgg 300
tccaattgca ctagaagcaa tgttccaagg tcgtagtgtt ggtaaacaag tcattatact 360
tgctcgtgaa taatttagta caaccttact gtttgatctt tcaattcatt ttgggtgtgt 420
tgtaactctc atttg 435

<210> 5357
<211> 332
<212> DNA
<213> Glycine max

<400> 5357

agcttagcta cacacacacc cctctaataa ctaagctcac ctcttgaga agcttccttg 60
agaagattcc taaagaatca agagcttagc tacacacccc ctataatagc taagctcacc 120
cccatgaaaa aatacatgaa aatacaaaaa atttcttact acaaagacta ctcaaaatgc 180
ctcgaaatac aaggctaaaa ccctataata ctataatggc caaaagacaa ggcccaaccg 240
gaggaaaaac cttttttaat attaacaaag ataagcgggc tcatacttag cccatgggct 300
cgaaatcgac cctgaggctc atgagaaccc ta 332

<210> 5358
 <211> 369
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 5358

 tgtttgaagg atagattctc attatacaaa gcttgcatga actagctcag caaaggccaa 60
 ttatgagcgt agagcagttc attgagaagg ttgcctggcc tgnngctcga ccttctttta 120
 tggggcataa tgaaagtttt acagcccaga cacctcaaca gcatgagcca caaccagaaa 180
 atgatcactc atctgaagcc atcatctctg gagctgttga ttgtaaaaaa agaagattag 240
 agacgagatc caatgaggct gctcatcatg aaccaatgcc agcgtcagtt gatgcaccat 300
 ttccaggagt ggattcatct ccacctcagc atgtagtaga ctcttcatt cctgtcttag 360
 agatacatg 369

<210> 5359
 <211> 391
 <212> DNA
 <213> Glycine max

 <400> 5359

 agctttcact cggaggtccg attcaggcgc ataatatatc gagacgctcg aaattgaaca 60
 atggaagctc ttgagcaatt caaatgggtca taacttttca ctctgaggtc ggattcaggc 120
 gcattgtata ttgagaagct cgaaattgaa caatggaacc tcttgagcaa tttaaattgt 180
 cataactttt cactaggagg tccgattcag ggcataata tatcgagacg ctcgaaattg 240
 aacaatggaa cctcttgagc aatttaaattg gtcataactt ttactcggga ggtccgatcc 300
 aggcgcataa tatatcgaga cactcgaaat tgacaatgga agctcttgac aattcaaattg 360
 tcataacttt tcactctgag gtccgattta g 391

<210> 5360
 <211> 470
 <212> DNA
 <213> Glycine max

 <400> 5360

 ctgatggtgt cgagaagaaa tcacatgttt ggcacatca aaaaggggga gaatgtgaat 60

gtatgtatac atgattttga tgatgccaaa gaaaaatcaa acaaggttgc ttcaaagtat 120
aagcatttgc ttcaagaata attcaagagt gcttcaacaa acaaagcctt gtttcaagat 180
tcactaaaga ccaagccttg ccttaaaaca aagtgtttc aagacatgca aagctctggt 240
aatcaattac cacgaagtgt aatcgattac cacaagacat ggttgagaaa tagctgttga 300
aaaaggtttt gaatttgaat tttcaacatg taatcgatta ccatatgtct gtaatcgatt 360
accagcaacg aaactttgga aattcaaatt ccaaagtcac aacccttcaa attataactg 420
tgtaatcgat tacacaaaca ttgtaattga ttaccagtgg aaagttttca 470

<210> 5361
<211> 513
<212> DNA
<213> Glycine max

<400> 5361

agcttgtgct aaaggaagta agacatgtgt ttgagatgcg tttaaaccctt acctcaacat 60
gaaagctaga tgaagatggg atgataaacc agttcgatac agatagatgg aagcttacta 120
gaggaagcat ggttgttgc taaggtaaga aggaaggctc attatacatc atgcagggaa 180
agatatgcaa agggaagaca aatgttgctc aagatgcaac caaagaattg tggcacaaga 240
tattgggtca cttgagtgc aaagggttga agtttctagc aaatgatcac tttccaaaca 300
taaagaggca accacttgaa tccttgaaga ttgtcttgca ggtaaataat gcagagtgtc 360
tttccaaaga ttgaatgaac tagaaggaga aagcaaacc ttgatcttgc ccacttagat 420
atttgctcaa tgtctaaaaa gtcccttggg ggtgcccaat accttgggtac cttctttaat 480
gattactcca acaagctgtg ggtggattcg ttg 513

<210> 5362
<211> 389
<212> DNA
<213> Glycine max

<400> 5362

tcaacatcag accacttcca ggggtgctgga actacttcac atggatttga tggggcctat 60
gcaagttgaa agccttggag gaaagaggta tgcctatgtt gttgtggatg atttctccag 120
atttacctgg gtaaacttta tcagagagaa atcagaaacc tttgaagtat tcaaagagtt 180

gagtctaaga cttcaaagag agaaagactg tgtcatcaag agaatcagga gtgaccatgg 240
cagagaattht gaaaacagca ggttcactga attctgcaca tctgaaggca tcaatcatga 300
gttctctgca gccattacac cacaacagaa tgggatagtt gagaggaaaa acaggacctt 360
gcaagaggct gctcgggtca tgcttcatg 389

<210> 5363
<211> 533
<212> DNA
<213> Glycine max

<400> 5363

aaccgctga gtttttttgt ttcacccaaa ctctatgagg agggccagaa actactgtgt 60
aagatthtct ttttttcctt gttagtgttc ttgatttgtg aatctcactt aaatthtgag 120
cttaatatgt ggcattgcatt gtgaatcaca tttttaatct ttatcagcta agttgagttg 180
tttatgtatg ttgtaaggcc tttcaaggag aaacgaagca atgagcttaa attctaatag 240
ctcaaaatca catataattht tcacatthtgt cattgagtct ttgtgtaagg tactgtcaaa 300
ttttgtaatt ctacctaaaca ttaccagcag ttgtgtatgg aaattgttgt tttcctaaga 360
ttcaagccac ggttatattht tctctgttag ttctattgct aaacatgatt tttttaaaact 420
gatgttgca c ggaacccaca aagggtttca atatctcaaa cactagcaga atcaccctta 480
ttgatectgc tggattggat aacgatgaaa ttgatgatgg agagccaatg tct 533

<210> 5364
<211> 525
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5364

tgtggtggtc attctctacg ccattthtcat cgctgccgca tgtaaaatga cggtaaggc 60
tcttaagaca gcaatgtaaa gatgtagggt atgataatag caaggcaaat tgaaatagaa 120
tatgtatatt gttattthcat tgatcctttg catgatatat ataatacatg tacaagaatg 180
ttctatacca attctaaggc atgacagacg tgatccataa tcagtggcat ctgatttatt 240
ctatgcatta taaggtaaat aaatatagaa tcaaggtaac atangaaagt aaatatatac 300
acagcatatt tgcaatcatg tagaagatat ttcctaatac tccccctcaa gttggtgagt 360

gaatatcgtg aagtcccaac ttgttgcgca atgtcacaaa ttgatctttt tccaaagctt 420
 ttgtaaacac atctgctagc tagaattttg ttggcacata agaaaagatt gatcatccca 480
 gctttagatt ttttcccgac tatatgacaa tcatttccat atgtt 525

<210> 5365
 <211> 584
 <212> DNA
 <213> Glycine max

<400> 5365

agcttgaggg gctacaaaat cgtgcctcac cgtgaactcc ttcattttga atgaggcgat 60
 gaagtttttg gtgaagaaaa ctcacctcc cctctttta acctatctcg tgcagagggt 120
 gctcgcccag gcgagctagc tatgcatttc ttttttgcaa gacttctctg aaaaatttta 180
 actattctac gggcttgcg c ttgtttat taaatccca gattaagaat aaactagaca 240
 tattcaacta tgactttaga caaatggaca aacaagcaga aacttaaaag atactaggca 300
 gcctcctagt agtgcttctt taacatcttg agccggacgc aggataatga tttattgatc 360
 atgggcctag catctgctcg taccggtccc taagtcttct aaaaacagga aatggaacca 420
 cgcagtaaaa catgactacg ctaccactta ccttggttta tcttttctt gaattccgcg 480
 ttgtattgac catcattcga aacaaatctt ctcttgctgt tcgatgcata ggatgataaa 540
 tatgcatatg catgcatgct catgatcagg cagttcaagt gtaa 584

<210> 5366
 <211> 553
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5366

aaataatttt tttaatttcc atgatatagg gtgttttgcc ttttcttctt tatctttttt 60
 attttcattt ttgtctccct aaaaaataa ttgattcta atcttggtat tagttttggt 120
 cgtgaaatct aatagaaaaa attacaagga ccacaataga aataaaaaaa attataagaa 180
 caaaaaatta agtgaagaac caaatgaaa aaaccttata tatatatata tatatatata 240
 tatatatata tatattaaga ataacaacct aaacaactat ttgggtaaa aaaaattatg 300

cccattccaa ctctccagg cttgacttcc ctgcactgat taccgcctta tgcacgcaca 420
gaggagtagt cccagattca ttgactttcg agtccctgag cctactatt aatttg 476

<210> 5369
<211> 550
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5369

agcttatatc aaaaaattga ggccaaaaag gttattgaat gaaaaacatc aactaattag 60
acagcaaagg ctacattacc aaaactggga gcagcaggac aaacaattgt agaagcaaag 120
cttcatgatg aatcaagatt gattcaaaga tgttttgata ataacaaaga tgatgacaaa 180
ggatgatgaca aaaagctcaa aggtcaatca aagaataagt tcaagatgtt caagatagaa 240
tcaagaacac ttcaagattc aagaggaaag ttgaagaaca cttcaagatt caaggatcaa 300
gcttccaaga atcaagactc aagattcaag aatcaagaga agacttaatc aagataagta 360
tgaaaagggtt ttttcaaaaa ctgagtagca catggatatt tctcacaaca tgtntaccaa 420
agatttttta ctctctggta atcgattacc agtagcaaaa tggatttgaa aaagttttca 480
actgaattta aaacgttcca attgatttca aaaactgtaa tcgattacaa tattttggta 540
atcgattact 550

<210> 5370
<211> 624
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5370

tggtgtagag cttgagttat ggagccaaaa aagacaatga tttatacttg taacttgta 60
gaattagtgg aacttagtgg ttggtcaaga attagacata gtcttggttg ttgagacgaa 120
ccaatatata tttcttatgt cttattcttt cttctattat ttgaactgac ttanggttta 180
aatttgatct ttgcttttga aaaactttgg ttgttttatg aagatttgaa actatcgttt 240
aatgtgtcct acgaaaattt gatatctggg ttcttatatt ttacttcac agatgatatc 300
tttgttgtat tcgaaaaagg ttttaagttt agtaaaaaac aaaattcaac ccccttgta 360

tatatgcctt tacaaattct aagtgggcca tcttgatat agaagagaa gagaagcaag 420
gaagcatcat gttgatggaa aactttctct gaactagaaa gaacccttca taaatactgt 480
aacacaacaa aatggggcctt cccaccttga acaactttat tgaatgggtat ttttaggact 540
tgaatgcaac acatttgaag cctcttctat taaaaataag ggggggaccc ctttttcctt 600
tcaacctttt ttccaaataa aaaa 624

<210> 5371
<211> 861
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5371

acaaacaaac gcacgcataa cgaacgcacc tccgcgacaa tatgatgtat ccannnnnncn 60
nncaccccn agggatgatg catcatgncg caccgggaac nnanaagcca ccgcaggaag 120
caaccaaccc ccgacgagag ggaagattct ttaccaccc cccaaggag gaaaaggcag 180
ttttgaaaag gcttccgacc cgcctcaaca gcagaatatg gacaaaaaag aggggggaaac 240
cctcaaaaaa catacaccca cacagagggg ttcacgcggc ccaaaggccc tcaaccagg 300
gtgagaaaga gaagaacacc acgatggaga gaccacctg cccccggact actattagaa 360
acaaaatnga tataatcacc aacaacctaa ccgatcaggt ggcagacggg gaaaaaaata 420
acntcgcaa tcaaaaacaa aaaataataa tcttcccccc cccaacacaa actcccaaag 480
aaaaacggca ccagggggcca aaaagaagga gggaaagccc cataaccgac agaccaacca 540
cccgggggga acacacggaa aaacactgg ggcgcccac gcgcccacaa aaaccccacc 600
tccacagggg agcaggggaa agcccaacgc aaacaacccg ccgaccgaaa atgccccccc 660
aaaggaagca ctacaaaacc aaacggcagg cgcacccaaa aggggtaaca ccacaaaag 720
aaaagaagcc cccccagcag accccggaaa acaaccactc cctccgaagg agaaaaagag 780
ctaaccccc acatcgcgcc ggaacagacg gggacaacaa tcagagaggg cctacgacca 840
ccctaccgca caacagacac g 861

<210> 5372
<211> 914
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5372

acgcacttcc atctgattct actccatgta tccgtacatc aaatcgtact cccccccct 60
cccaccccc ggantttgtg catcctttcg gccttatata ctaacttggc attcatatcc 120
cgatgaggat gatccataag ttctcaagac tggactaata acattgctgg ccaaatttca 180
tgggctttgc agctgaaaaa ccttcataag ccattcttaa cggagttccc atattgttct 240
tgttccaccc ttgaagaccc ccttgatggg ccacggaaga agaataatat tttctaacaa 300
gcctttatata tcaattttctc tggaacggag atggcaaaaa caatggggtg gtactacccc 360
tgtacaatcc aagcttcctt gatgaactaa cgaatgattt cacagatgtt ttcgatgata 420
acacaacggg attaacaaaa agcctccaaa ggcaatttct tgataattca agaaagagtc 480
cccaatgtta aaaaagctcc tgattgaatt aagaatcaag aatcaaggtc cagccttccc 540
gattcatgat ccataattct gaactctgaa ttttagaatc aaagaagaac ttttctgata 600
ctatcaaaag gatttttcca aattgattac cccatgggtt ctttctaaac ttttttccc 660
aaaaattttt ttctcctgct atccatttcc ccatttatgt ttttctttc ccaattttca 720
aaaatgtttc taaaaccctt cttaccgcta taacaccctt tccatatgta ttacaaaaag 780
tgttatgtaa ttaccacatt tgggtggaac aatccctgc gcttgccacc tcttacctta 840
tctttacaag gtcaagaaca tacccttttc ataaaaacct cttcatatgt atcaccgcaa 900
tttactgaa tccg 914

<210> 5373

<211> 865

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5373

ntgatttcat gcagtcctcg gccncttaga gtcgaccccc cgctgccag ctttgggtgt 60
tgaagcttaa tggaggcttg ggggccacta ttggttgac tggcccaaa gtattgctga 120
aatcctaatt tttttatatt taatttttaa ccttaaagac tctgggatga attggagaac 180
ttttccgtct tggggtggtg aaattctttg ctttggatgg cttaaacttg gaaaagaaat 240

ccacactttt cttaanaatt ttacacgcgt ggaaagaaat caagaccacc tattttatttt 300
 gatcaaattt ttttgaann aaaacctttt tccattgccc cttgtagaat tgtttctttc 360
 cagcaacgaa cttatttttag ggaattttca ggctagggtc cctaaacatt aatttggttc 420
 ccttgattga gttcctaaag ttttgaaacc gccataaatt gtcaacatat caaaaataga 480
 aattatggcg aacataaaat taatccaatg acatggattt ggaggggggg gggggnnct 540
 ccccattht cttctcccc tactcatccc ttccgcccc ccaaactctt cagttcaccc 600
 acctgtttac tctetaacct tcactctccc acatcccctc ttctctcttt ttacaccccc 660
 tcagttattc cccactctat cctctctctt ttctctccac tccttattct ctctaccctc 720
 cgcccaactt gttggcatcc cccctctata cttctctccc ctttcaactt cttccactct 780
 cctcattht ttttgtct ctctataatt cttccctt ccccccaccc tttctaata 840
 cctcctctc atccccctt ctccg 865

<210> 5374
 <211> 457
 <212> DNA
 <213> Glycine max

<400> 5374

tgccattatg aatgggtcat ccttgtaacc aactttttta aggtctacta aagtgaatcc 60
 cattttgtct ttacgcacac ctatgttttc attcaccac ttacatttga aaagaggtag 120
 tctaaattca ccgtaatcaa cctcctaaat ctcttcaata acaccatagt aaggcatgca 180
 agcttcaatg ggattattgt tagcagcact gcaaaagtga ttcgattgac catcaacact 240
 gaccccgcta ttctgcacac tactttttatc atcctgggac tttgtgtaga aagaacattg 300
 attgatatca tatcccttcc aagtgggaac attcatattt ggaccacag ctagcaatct 360
 taatgtgttt gaagcactgt catcggtgaa gattgtttgt ccaaaccaag gtatgaaacg 420
 tatattgtgc tcttgcaaca acctcatcat gttcatt 457

<210> 5375
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 5375

ttcctcgagc acgttcatca tccacactgc ttgacaagca ccaagtgatg ctgccacata 60
 ctcaacttca gaggtagaca aggccaccac atcctgcttc cttgaactcc aagccactgg 120
 tgcacatag tacatgaaca aataccctcc agtactcttc ttctgttctg gatctctttt 180
 ccaatcagaa tttgtgtaac caaacagatc tgattcatat gattcaactt caaaagggaa 240
 caacacacca ttgtcaattg tccctttaac aaacctaagt attcttttgg ctgcttgcac 300
 gtgtgaaagt ctaggttttt gcatgaacct gctaataaac ttacttgcaa gcagatatca 360
 tgtatgctgc tgcataagta cctca 385

<210> 5376
 <211> 311
 <212> DNA
 <213> Glycine max

<400> 5376

taaaatatta tttagtctta ctgggcctac aggattacat gtgaagaaaa ttgcagtga 60
 accctttttc ggccaaagga acttcacatg atcacggggg tgccaaccct tttagaagga 120
 aaataaaaaga gtccatgata gatgaagatg atgaggaggt ttcaagcttt aagctgtcat 180
 tttcactggt accaaataga gatatcaggc tgtttctgaa gagcatccat cctactact 240
 cctccttgca tctcctcctt gaaatcaaag gatgccaaat cacaagggga accaaacatc 300
 aaatggaagt t 311

<210> 5377
 <211> 522
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5377

agcttctaaa aaaagatttt taaagggtgca aactattgca acccgtaaca atttggaat 60
 atccccaaaa tgtgcttaaa atgacatttt tagttttcaa ttatcatgaa ataaatactc 120
 aaggtaggga gatcaaaaac ccaacttttt tcaaacatta aaacaacatt taaggcactt 180
 aaagtcacca aagctcctat ttttcgtagc aaccggaac tatgataaaa tagaaccgaa 240
 aatggcttat aatgctataa acattatgaa ttttaattcca aatgggtttt aaatccaaat 300
 ccaacatacc ttgaatttag ccctatatat ttaaccatag ggaatccatt ttttagataa 360

aaaataactaa attntgtacc aaacactgtc agtacgtcga agtagagcca aacttactta 420
 aaatgcttca aaacattaag aatttgtttc ccaatgattc ccanatccaa attaaataaa 480
 ttatacatgt aacataattc tatattttga cccaatgaa tc 522

<210> 5378
 <211> 477
 <212> DNA
 <213> Glycine max

<400> 5378

tattttgatg attgctttga aacaatttta aaggatgtc aattgagtat gggaagaaaa 60
 tgggctgcaa ataggcaaag cttatggaat gaattcaacg atccaaccaa aacaagagat 120
 gaaatcataa aaaaatgtgt ggataggcat agataaagat caatgggctc gttttgttaa 180
 ttatagtcgt aaaccatcaa cattggtaca attagactgt ttaattatt gaattgtttt 240
 tatagctcat tatatgatta ctattacaag ttgtaaactt gaaattgctt tgcataatagg 300
 aactttgtaa gagaaataaa gaaatttgaa gcaagcaagt tattccacac actggtggat 360
 ccaaagctaa tcctataaga agaaatgagt tggatgatgac actaaatgtt aactttacta 420
 attaaagagg ttcaaagttt acttactctt tattttatatt accctgttaa aaaatgg 477

<210> 5379
 <211> 505
 <212> DNA
 <213> Glycine max

<400> 5379

agcttcccggt atccgtactt ggaaggatct gattaccgcc ttcttaaggc agtatcagta 60
 caattctgat atgggtccgg accgtactca actgcaaaat atgttcaaaa aagagggtga 120
 aacctttaaa gaatatgctc accgatggag ggatttggcg gcacaagtag ctcttcccat 180
 ggttgagaga gagatgatca ccatgatggt agacactctg ccagtgttct actatgaaaa 240
 gctagtgggt tacatgccgt ccagctttgc ggatctgggtg ttgcccggg aaagaatcga 300
 cgtgggattg aagagaggaa agtttgattc gtttctcca caaacgtgaa cgccaagaga 360
 atcggggcaa cacgggcgaa aacgaaggaa agagatgccc atgccgtctc ttaaacaccc 420
 gcatgggtca aacccctca aacacctcat ggtgcccatc aatacgcgcc aaatcaccca 480

accttttttg ttatgttgga atgcc

505

<210> 5380
<211> 379
<212> DNA
<213> Glycine max

<400> 5380

gacactatga aactaagctt gataaattac tcggaagtgg taactacatt ttttaagctg 60
aaagttctac tgaattttgt agacatttgg accaaaatta taaaaaaaga accaagcgat 120
ttggattaaa gaaaaaaatt agaaaaatca cacaagttgg atgaaaaatc agtgtccagc 180
aaaataaaag tgaaaaggaa gtgtgcttgt tgttttagct caaaattggt tctataatag 240
gtgcctactt tataccactc ctagttctga aacttcaatt gaaaataatt atgaaaacac 300
gtgccaaaaa tagaggtttc ttgagtcttt ttttcgattt tcttttttag attttctact 360
ctactctata gcctttata 379

<210> 5381
<211> 427
<212> DNA
<213> Glycine max

<400> 5381

agcttgctag cggatttttg catttccaat tcatggtaga aatccagcag ttaaaaggct 60
atttttccat cttccaagtc aacaaccaat ctacttcaat gatgatgcaa atgttcaaga 120
tctgctctct aaaccaagtg tcagtcaatt atgtttactt catggatgga agcaaacaaa 180
gtttaccttg aggctagtga tctcacttat agccaattcg taactagatt tttttatgtg 240
aaaaaaaagt tgttggacat gtgtcgcaac cttcccttcg gagggagggc gaccctgtac 300
tcgctggtgc atcttcccag aaaggaatat gcgcggagtc cccaccaacg tttatttgag 360
gaaaacctca gaaaaaccaa aaaagacgtg gtctaacaac ttttaagtga aagttccggg 420
agttggtt 427

<210> 5382
<211> 376
<212> DNA
<213> Glycine max

<400> 5382
 ttgcatcaga caaagatgat agcaaatacca ttttaggata tgtttacact ttaaattggtg 60
 gtgcaataag ttggaaaagt tccaagcaag ctatggtagc agattcaact actgaagcag 120
 aatatatagc gacaagtga cccgctaaag aagctgatag gataaaaatg ttcatagttg 180
 aacttggtgt ggttacttca atagaagaga cgggccatt aacgtgagac aataatgggg 240
 ctattgctca agcaaaggaa ccaagatcac accaaaagt caaacatatt gtgcgaagg 300
 atcacttgat tagagagata atacaacgag gtgacgttaa gattgaaaat gtttatggaa 360
 aggagaatgc aacaga 376

<210> 5383
 <211> 219
 <212> DNA
 <213> Glycine max

<400> 5383
 agctttaaca aatgtcttca cgaataatca ttacacagga gaaaactaag cccactaccc 60
 ctcatatcta ccaaaacccc ataccacga atatgaagag ggaaagaagt ccacccaac 120
 ctgaaatttc gaaggccac tcgtaaccac gcacttcacg actccaaaaa tgctctcctt 180
 tcacgatttg gggcataaat ggtggccaaa ggttgaaac 219

<210> 5384
 <211> 464
 <212> DNA
 <213> Glycine max

<400> 5384
 aactatata atacctcagc ttactgaat agcttggtt attgaagaat attcttcttg 60
 aatagaacac gttacccaaa aatcagtagc aggcaataa gatattatgt cttgcacata 120
 tggagtacca aaaaatacat gcatgcccta ataattacat tttgtataga aatcagtttg 180
 tcgaaacaca caaatacccc acaagtgggt atcacagtag aaattgaagg ataacacatg 240
 tggatgatgat gcaacgaaaa acaacaacta tttatcaaag gtgtgcta atctttcaat 300
 tattccaagg ttgcagtgat tgttttctaa tggacatgat accaaaaaac ttaacatggc 360
 atgcagctgg tagaaaaagt gatggattgc tccaacatcc ccgtgattat ccctaataka 420

agacaattga tcatttgat cctaaaattg cataggacct atga 464

<210> 5385
<211> 98
<212> DNA
<213> Glycine max

<400> 5385

ttacccatat cgtttttaggg tttttatgat gatgctcgcg atgtttatgt gctggcatcg 60

attatggtca actggccggt atgaatggtc cagtgggc 98

<210> 5386
<211> 341
<212> DNA
<213> Glycine max

<400> 5386

tgaaggcgtg tcaccaccca tcttctcata gtttaacacc gataacatgt ctactatgat 60

tgttatcatc tccctcttca tcattggggg cgttacttga gctgccagat gccttcacct 120

ttgggcatat tctttgaaag attcatgctc ctttttacac atgttctgta gctgcattct 180

atcaggaacc atattagaat tgtactgatg ctacctaataa aaagaaacca ttaggtcctt 240

ccaagaatgg actctggaag gttccagatt actatactat gtgacagctg ccccagtaag 300

actttcctag tgtcataccc taaattcgtc tggggatgat c 341

<210> 5387
<211> 265
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 5387

agcttgggca tttttctttt tctctgttat acaaataat gtcngtatt gagaaacaaa 60

atcttactct ccattcgacg cacatgtggg ttttagttg ttgattttca catttaaatt 120

tgagaataac aaatgtttga ataaaatgag gtcgacatga gtttttacat acattttaat 180

accctgctga tctcactttt ggaaacaaca aaataaaagc tttgtatttt aatttttttg 240

aacttggtg ggtcagatgc tttcc 265

<210> 5388
 <211> 530
 <212> DNA
 <213> Glycine max

<400> 5388

ttgacaaatg aataaggttc catggagatg atagacataa ctaagaggga tggaagtgtc 60
 catttgtttg ttttgcattc agttctaaag caagctaaaa atgtccaagt gccaaataac 120
 ctggttaggta aacaaaatgt gacattaatt cgtacttttg cttcattgga aatagactta 180
 tgtttgattt tacaaagagg gatggaagtg tccattttgt agtttttttt atgacattgt 240
 ggcacaggac aacaatgggg cagcccaaca taatggacct ataccactta atagtccact 300
 tcaagtcaat ggaccaatag tatatgatgg agcatgtaaa tgtattgcgt ctattgaagt 360
 taatgtgtaa cattcctgct tctaggatca atgactaact tcacaaaaca caaaaaagct 420
 ttcaaacggg tttagtcctt attcacggtt ttctggggaa actttcccaa aaggcacccc 480
 tttcccttaa ctaacctaata accaaaatcc cttaactatt aagatcttaa 530

<210> 5389
 <211> 550
 <212> DNA
 <213> Glycine max

<400> 5389

agcttgtcag cataagcatt gccttcatgg tagatatgta aaattctaaa actaaacttt 60
 ttagttggat ctatacaatt cacctagcag ttgtaaaaag tccagggggc tgaaaaagga 120
 tgattatata atgcacaata ttgaaaatat tgttgtatga ttgtgctaata cctaattgta 180
 ttgagaatat tgctacatga ttgtgctgat cttaattgat tctatttgta ttaattctga 240
 ttgtatgtat taattcttat tggattttta ttttattttg tatcttgatc tcttgattat 300
 tgggatcact tattttttagg atagatagtt gtatcagata tgtcaggaaa agctataaga 360
 gaaatcttag ttaggtgggt ggatgacctt gtatatatat ctatcaattg tttttaatag 420
 aggcagaaca acaaggagga ggtgaagcaa aagctaagga gaatgaaact cgagatgtca 480
 ttgaagatca aggaggaggt gaaaaagcag ttcgacgtcg atttcttggc ggtggcttga 540
 taccgccaat 550

<210> 5390
 <211> 452
 <212> DNA
 <213> Glycine max

<400> 5390

tccatcaagt ttgaatcctt gtttggtcgg attccccata taattcactt cctatgcagc 60
 atcatcaagg ggtatacaac aactagattc atatgctcct ccacatatac tacaacctcc 120
 aacctgtatt actactgaat gggaagggtg aactacttgc agttgggttg gcagcttact 180
 aagtgtctct gtcaatgatt ccagttgttt agctaacaac ttgttcagtgc ccaacagtgc 240
 atcttgtgaa gaaatctcta gtaagcttct ctttgtgggt acatgagttc tatcacacag 300
 aatagcatga tcaactagtag ccatattctc aataagttcc atttcttctt caggagtctt 360
 taatttaatt tttcctcaag aagaagcatc caataactgc ttggactgca gtctcaaacc 420
 atcaatgaaa atgttcagct gaatcggttt gg 452

<210> 5391
 <211> 527
 <212> DNA
 <213> Glycine max

<400> 5391

agcttggata atcctcacct tacaattcag ttttctgggg ttgaattagg tcctaagcct 60
 aaattctaac agtaagttaa caaggcttgc cagacttcca acaaaatttg tccatcctct 120
 acaactttca agaacacatt ttctctcaaa atatcaagct gacacatgcc acattgttat 180
 tcaaagtaga tttttcattc acaggaattt caggcacatt attgcataaa aagttataga 240
 caccttgatc agttaataaa gacattagaa gctgctttac tgccaaaatt aaacgaaaga 300
 ttttcttttt tattggtttg aattacagat agtttaacag cttgtggata atatcaacca 360
 cagggttctt tttcctgtca tcatggcata gcaaaggcca agtatgagaa ctgaaatatg 420
 gaaaacatgt tggtaatcaa taccttaata cattgatgta ttccgaagca attccttccc 480
 acattatttg ttggaaaaag aggatcatct atgtgaattg gatcaat 527

<210> 5392
 <211> 515
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5392

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aacaactttc tatgaggacc ctgatagaa ggcattctga aagggtgtagt attcatcccc 120
ttatgagaaa tgtgagtgat ggaagcaatt caagtacaaa ggtgataatg agttgaaata 180
tgtaattgat gttgtaattg attatagaaa tattaattta attcaaagga ttaggttctt 240
caatgaaatg gatgattaat aaattaattc attaaggatt catatgaaaa tgattacttt 300
tcatatcaat caatcacaaa cagatgatca atgacatgtt catgatcata attaactgca 360
caaatctcga ccttttttat tgattatgta tctcaaccct ttaaaatatt ttatgttaaa 420
tanagcatatc agcatatata aaattgaatc gaaaaaagac tacattntat gcaattcatt 480
attgaactac tgtggcatct ataaaattac acttc 515

<210> 5393

<211> 523

<212> DNA

<213> Glycine max

<400> 5393

agcttgccca gagaaggagt ccacagagga aatgcttacc acctcaaaag actggaaagc 60
ggtttctaata gactcctctg cggcctccac ataaggcata gaagatgggc agtcaccaa 120
gatgtcttcc tcgcctgaca cgatgaccaa atgcccctcc actacgaatt tcaacttttg 180
gtggagtgtg gagggcacaa ctcccattga gtggatccac ggacgcccc aacagacagct 240
gtaggggggg ttaatatcca ttatttgga ggtgacttga cagggtgtgag ggctatttg 300
tactgggaga tcgatctctc ccctaacctc tcggcgagtg ccgtcgaagg cacgaaccac 360
cattgaactc ggctttaagt gggaagcatt gaatggtaat ttctccaaag tgctctttgg 420
catcacgttt aaactggaac cattatcgat gagcactttg gctacgatat ggtccatata 480
cttgactgat accgtgaaag cctttgtatt gccctctccc cct 523

<210> 5394

<211> 436

<212> DNA

<213> Glycine max

<400> 5394

tttggtagaa agaagaagaa gaagttcata gagatctcag gcttggttaag gattgtaaga 60
gatttttcaa aatgcataac aaagccttgc ttttatagac tcttgatgtc tggtaagaa 120
gaccattcag aagagttatg acttttagaa aaacttaaaa cccatttgac aaagtcaaaa 180
cctttgtgaa gagttacatc ttttagatctc tcagagacaa aacttggttaa tcgattacca 240
aataagtgtg atcgattaca ctaagctttt gaggtaaagg atgtgactct tcacattgaa 300
atttgaattt caacgttcaa gggcactggg aatcgattac cagaacattg taatcgatta 360
cagccttttg aatatatttg gaacgggtga aagtcagttt gaaagtcttt tcaaacttat 420
ttttgctact agtaat 436

<210> 5395

<211> 516

<212> DNA

<213> Glycine max

<400> 5395

agcttatact tctatcaatt caatctgact aaagcctcat tggaactcgt tcagttaatt 60
aatcatccca ttactcaacc tgaaaaatat tacttttaatt ttcttcttct atagctacat 120
aacagcctaa catatatctc ttcaaccttt ttccataatt caacatcaga gtttaaacaa 180
tcacgcaaac gaaaatcaaa gaaataataa aatggaaaca atacaacaaa ttgccccaaa 240
aaaaaatgaa gccacacgtc acacacaagc aaacagtaca tctaaaatgt aagcagccac 300
aacacacggt tattcataat aggttgggtga tcttaattca aggtttggat cagaattaca 360
agagacaaac caacatccca atgatagaaa ttagaaacct accattccta ccacactatc 420
atccattaaa caaagtagac atttaggaca atttcaattt caagggacaa agctagaaag 480
cagatcactt ttcaaaaaaa ctagctgcc acaaca 516

<210> 5396

<211> 436

<212> DNA

<213> Glycine max

<400> 5396

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tattcccaaa ctgaatgcaa tgaacataaa attaaaaagg actgggttgc ctctcagcaa 120
acgctcgttt aacgtcatta gcttgatgca tcttacttta tggatcaagg tcaaacttgg 180
ttccaacctt cagaaccttc tcttctcca cttcatctat ctcaaaatag acatttttgg 240
cctgcaaatg cttttcttcc tcaaataagt cgaagttgat cttctgatta tcaacacca 300
tctccagctt cttctttccc atatctacca catagctggc agttaacatg aaaggacatc 360
ccaagatcaa agggatttca gagtcctctt cgatgtccat tacaacaaaa tcagttggga 420
aatgaaatg ctttac 436

<210> 5397
<211> 453
<212> DNA
<213> Glycine max

<400> 5397
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cataacctta ttcagggtata atatgagata aaatccctat cttgttttaa gaattgcacc 120
aacagtacca taggtactgt gtctcaacac attttaagtt tttccattg tttaatgcat 180
ttaagggatc caaccaagac agtatagcta aattgattga atatgatgcg tgagcgatta 240
taaacctctc agtacatgtc ttcgattcct acagacaaaa aaaaaaagaa tccaagggtgc 300
aagtttgaaa atatgttcat cctttaaact ttttttgtgc ctccaatccg ttgactatga 360
gtttgtgtat tggcagcaaa atatattttt aaaaatgtca tgatgaatta ctgaaggatt 420
agcattttta caagcagcac aaaccataat cat 453

<210> 5398
<211> 479
<212> DNA
<213> Glycine max

<400> 5398
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gttgatcata cattaagaag agaaaaggagg cttagtgttt cttgtctgct caatttgtat 120
ccactaaaaa agttaacacc atttttttac ttgaaaatta tattgtctta tttttcatca 180
tcaatttaag acatttttcc aaattaatca ccgaaaaaac atttactagt ttgggatagt 240

[illegible]

<400> 5399

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<210>      5400
<211>      515
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      5400
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2288

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515

<210> 5401
<211> 402
<212> DNA
<213> Glycine max

<400> 5401

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tcattgacat catttttttc tttgtcattg agggaaacac ttgggctacc agatccctcc 120
acctttgggc gtattctttg aaagatctgt gccccccctt tttttgcaca tgtttttag 180
ttgcaccta tccaaagcca ttatactgac actgcctaac gaaggcgacc attatgtcct 240
tccaagaata gactcgggaa ggttccaagt tagtgtacca ggtaacagct accccagtaa 300
gactttcttg gaaggaatgt atcaacaatt cctcatcttt tgcgtatgcc cccatctttc 360
cgacaatata tcttttagatg gtttttgggg caagtagtcc cc 402

<210> 5402
<211> 448
<212> DNA
<213> Glycine max

<400> 5402

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attacctgcc tcgccaata ttatgatcag ccgatgaggt gcttcacctt tggggacttc 120
caactatcac ctatggtaga agaatttgaa gagatcctat gatgccctcc agggggaagg 180
aaaccatacc tcttctcagg gttctatccc tcattagcta gaatttccaa gatagtcaaa 240
atctcggcgc aggaattaga ccacaggaag caagtcgaaa atgggggtgat tggaataccg 300
agaaaatatt tggaggcaaa agcaagaatc ttggcaggta aagggcaatg gaccccgttc 360
atatacatgt gaaatgagca atacaaggat tggttgctgg actccagctc tttatgtatg 420
ggtaggttca cacctttttc gccaaaag 448

<210> 5403
<211> 226
<212> DNA
<213> Glycine max

<400> 5403

ccatgcaaaa tttctgtctt ccaccttaat tcataatgat tcatatgggt tttatcgaac 60
tcgcttactt aagaaaacca aatgatgggt atgggagctt gccttcaatg gctgcaaaaa 120
aaaatgagag acacacgtcc tcacaggcat ttcggacttc taaaatgttt gcgtgcgcta 180
cacacggcta ttgctaaaag gatggtgatc tgcattcaac gtctgg 226

<210> 5404

<211> 430

<212> DNA

<213> Glycine max

<400> 5404

tttgcaagct ggaatcattt atcctatctc cgatagccaa tgggtgagtc ccgtccaggt 60
agtcccgaag aagactggcc tcacagtgat cagaaatgag aaggaggagt tgattcctac 120
tcgggtgcag aacagttgga gagtctgcat tgactatagg aggctgaacc atgttaccaa 180
aaaggaccat tttccctgc cattcattga ccagatgctt gaacgcctgg caggtaaadc 240
ccactactgt ttccttgatg atttttctgg ttatatgcaa attactattg ctctgagga 300
tcaggaaaag accacattca cctgccccct cggcactttt gcttataaga agatgccttt 360
tggcctgtgc aatgccccctg gtaccttcta gcggtgcatg attaataatt tcagtgattt 420
tttagaaaat 430

<210> 5405

<211> 874

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5405

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agcgatgtgt atatggcaca cgatgtttta tacactgatg atttcttcat cgccgaaagg 120
tacgccttga gcccttgtaa acattgttta acatatatac cataaataat caccctattc 180
cttgacttaa tataatagat gactacagct ccaataagat cctgtgggtt aaacactatt 240
tataagcacc atcctcttgt aataatgcca tttgtatggt atccacccta tgacacgtag 300
aagctataat tgatttgaat atgatacggg tgcgactatg aaactctgat tccaagacta 360

cgattcctcc	atccaaaata	taaaagataa	tctctatgag	gcgaggaaaag	aaggtaatgc	420
tcttcctctt	taacatttta	tttgagccta	ccgatccgac	gacatataag	tcgagtattg	480
gactcaaaaa	atatttttat	atattgtaac	ataaactcct	gaatgatttg	gttaatagca	540
tcccccaaca	agcatattca	tcgataactg	tcacactgtc	tctcccacac	aggggcatgc	600
agataggatt	ataagtctca	ccgcgtgtct	ttcggggaaa	atattcctat	ccacaaaaga	660
ttttgaacag	ggctatgaga	ccgcttccgt	atttctgtaa	cgaaaataat	gaaatccttc	720
tagctgagcc	ttggcgagac	ccggagaaaa	cattcagagt	ttatacaccg	tctcttagaa	780
caagcgcact	taagactcct	ctccattcgc	tgagacctca	aaattttttt	ttcaataata	840
gacgctctat	ataaaggggg	tcccctatta	aacc			874

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<210>      5406
<211>      824
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      5406
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tttggggatn tatctctgtg cnagactaaa aaaatacaca tacg

824

<210> 5407
<211> 595
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5407

tcttgagaag cttccttgag aagattccta aagaagctag agcttagcta cacacacccc 60
ctataatagc taagctcacc cccatgccaa aatacatgaa aatataaaaa aagtcacctat 120
tacaaagact actcaaaatg ccctgaaata caaggctaaa accctatact actagaatgg 180
ccaaaataca aggcccaaaa gaaggaaaaa ccaattctaa catttataaa gaagaatgga 240
tccaaccttg acccatgggc tcaaaaatct agcctaaagt tcatgagaac cctagggcct 300
tctttagtag ctctagccca agcctcttgg agtcttctat ccaataccct tggnggtagg 360
attgcatcat aatgtaatcg attaaatact caaagtaatt gattaaagtg ttcttgttca 420
cttctgaaca actaagtgag agagaagtaa tcgattaaac cactacgtaa atgattaaag 480
tatagactct tgaataatca gtcatttgct caaacaacag tgtaatctgt tagaagatat 540
ggagtagcaa catgaacaac ttaaccctaa aacttgaagc ccaaggctaa agttt 595

<210> 5408
<211> 462
<212> DNA
<213> Glycine max

<400> 5408

tttgagaagt attataagct cggaattcat agcctctgca cttggatttt gggataccaa 60
attgggcttt gctctgtgca atcaacttaa ctagattaat tatatgggcc taatcaaagt 120
gttgaacaaa tggcctcaat aacttaagaa ggggggtgaat taagtttaaa atttttcctc 180
ttacaacttt taacccatt ctaaatagata agctcaaaat gcacaagaag aagcaacaat 240
caatttaata atgttctttt aacatgcaag aaaaaattga ttgcaataac atatatgaga 300
ttagggaaga gagaaatgcc aacttgattt atactgggtc gaccattttt cgtgcctaca 360
tctaatactc aagcaacttc acttgagaat tttcaatata ttttgtaaaa tcctttttac 420
aacttttaac acctaaagaa tccctttccc tttgttcaca aa 462

<210> 5409
 <211> 924
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5409

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 tgtttcttct acgtatccat naanacaann ccaacacacn naaggnnntt tgattgcttg 120
 gcagtcncct gngatnctct aggatacact agaggcgagc tgaacgcatg ccacctttac 180
 aaccttagaa atcgagtgat catacgtgcc gcaatatctg gggagacaac accgatcatt 240
 atctctatac tatggctggc agcctgctcc aaccatgatt ttacgaattg tgatattttc 300
 acaaacaagg ggagatacta actaccttgc tgttgatgtt ttccccacgt aaatgatgat 360
 atcaggcaat tgtagaatat gctctttttt atattcgtga aaactactct actaaaagaa 420
 cacacgacac taatttcaaa ataccactca ttttttatga acggaaatac gtataggcat 480
 atcgaaatgt atagccctat aaacaaaaat atataaagat ccacaaaggg tttattttct 540
 ggcgagtgga caacccgaaa agatgacctg ttaccaccgc tcaaatgtaa ataatgacaa 600
 cctcctgaca attgaatttc acatcttaga ccgcgcattc aaaaacccaa ttgcgggaat 660
 attctccact ggttaccaaa ccgttttaaaa ataaacttaa aaaacgggaa ccgctactcg 720
 gttttttaaa aaaaggatat ggacgcgatt ccataacctt ttcatacaga atccccccnt 780
 atacaaaggc tccactcata gaacaacaat gaccgtgtaa aaacttaacg ctaacaaac 840
 attcttccta tttataaaaa aaaaccaccc tcgttcttca aaaaagaaca aagactttca 900
 ttcttaacta aactttgtgg aaag 924

<210> 5410
 <211> 102
 <212> DNA
 <213> Glycine max

<400> 5410

ctttgtttgg tggagtattg atttttaaac gacttaagcc tagtcttgac ccctagaatt 60
 acaagtctac catatggggc ttctatatat taattgatac ac 102

<210> 5411
 <211> 569
 <212> DNA
 <213> Glycine max

<400> 5411

agcttccttg agaagcttcc ttgagaagat tcctaaagaa gctagagctt agctacacac 60
 accccctata atagctaagc tcacccccat gccaaaatac atgaaaatat aaaaaaagtc 120
 cctattacaa agactactca aaatgccttg aaatacaagg ctaaaaccct atactactag 180
 aatggccaaa atacaaggcc caaaagaagg aaaaaccaat tctaacattt ataaagaaga 240
 atggatccaa ccttgaccca tgggctcaaa aatctagcct aaggttcatg agaaccctag 300
 ggccttcttt agtagctcta gcccaagcct cttggagtct tctatccaat acccttgggg 360
 gtaggattgc atcataatgt aatcgattaa atactcaaag taattgatta aagtgttctt 420
 gttcacttct gaacaactaa gtgagagaga agtaatcgat taaaccacta ggtaaattgat 480
 taaagtatag actcttgaat aaatcagtc tttgtctcaag caacagtgtg atctgttaga 540
 gataaggagg tagcaacatg aacaactta 569

<210> 5412
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5412

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 ggattttggg atccgaaatt gggcttttgc ttgtgcaatt agcttaatta gataaattag 120
 atgggcctaa tcaagggtgtt gaacaagtgg cctcaataac ttaagagggg ggtgaattaa 180
 gtttcaaaat ttttctctta acaaactttt aacccattc taaatgatag gctcagaatg 240
 cagaagaaga agcaacaatc aatttaataa tgttctttta acatgcaaga aaaaattgat 300
 tgcaataaca taaatgagat aagggaagag agaaatgcaa acttgattta tactggttcg 360
 accatttctc gtgcctacat ctaatcgta agcaactcac ttgagatttt tcactatctt 420
 tgtaaaaatc ctttntacaa cttctgaaca cct 453

<210> 5413
 <211> 477
 <212> DNA
 <213> Glycine max

<400> 5413

agcttgtcag cataagcatt gccttcatgg tagatatgta aaattctaaa actaaacttt 60
 ttagttggat ctatacaatt cacctagcag ttgtaaaaag tccagggggc tgaaaaagga 120
 tgattatata atgcacaata ttgaaaatat tgttgatga ttgtgctaata cctaattgta 180
 ttgagaatat tgctacatga ttgtgctgat cctaattgat tctatttgta ttaattctga 240
 ttgtatgtat taattcttat tgtattttta ttttattttg tatcttgatc tcttgattat 300
 tgggatcact tatttttagg atagatagtt gtatcagata tgtcaggaaa agctataaga 360
 gaaatcttag ttaggtgggt ggatgacctt gtatatatat ctatcaattg gttttaatag 420
 aggcagaaca acaaggagga ggtgaagcaa aagctaacga gaatgaaact cgagatg 477

<210> 5414
 <211> 536
 <212> DNA
 <213> Glycine max

<400> 5414

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 atcatcaagg ggtatacaac aactagattc atatgctcct ccacatatac tacaacctcc 120
 aacctgtatt actactgaat ggggaagggtt aactacttgc agttggggtt gcagcttact 180
 aagtgtctct gtcaatgatt ccagttgttt agctaacaac ttgttcagtgc ccaacagtgc 240
 atcttgtgaa gaaatctcta gtaggcttct ctttgtgggt acatgagttc tatcacacag 300
 aatagcatga tcactagtag ccatattctc aataagttcc atttcttctt caggagtctt 360
 taatttaatt tttcctcaag aagaagcatc caataactgc ttggactgca gtctcaaacc 420
 atcaatgaaa atgttcagct gaatcggttt ggagaatcca tgagttggtg tttttcgcag 480
 caagctacag aatctctcaa gtgcttcact caaggactca tcttgaaact gatgga 536

<210> 5415
 <211> 738
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 5415

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atatttttat aatttggttg ttatacattt cccccatta ttatgccaat catgatattt 120
taacaaatca ttgatctata cttcttactt ttataattta gttttctccg tattatctat 180
cgcattagtc atttatatta tatacttttt ttttatttgt tgaaaatttt gtacaaaatt 240
gacatacaat tataatttca atataaaaaa cattatatat atatatatat atatatatat 300
atatatatat atatatatat atatatatat atatatatat atccccctccg agatgtataa 360
cccgaagga cagtaagata actntacctg tcacatacac ttggcttttt ctaagtcaat 420
tccaggacta gttaagtagg tttttttatt ctttctttca cgaacttttt ctcacaatga 480
tgcattgtcc atcccataac tatggaagaa gaatctaaga taccatgccg ggggagtaat 540
ctttttataa ttncattattc tttggagcac ccctctataa taattatata tccaaattaa 600
ttataccccg tctcttatct catgtatttt gaattattgtg gttggaaaat attaaacctc 660
agctcttaca aaaaaaaaaat acctacccta ctttatggaa accttctggt ggggatttcc 720
ttatcttatt ggggggaa 738

<210> 5416
<211> 466
<212> DNA
<213> Glycine max
<400> 5416

tgctcacttt gatactttgt gcttgctttg tcattttttgt tcccatagct cataggctag 60
ttaagattgt gtataatcaa ctacttttgc attgactttg ccatataatt ccatgtcagg 120
tttatgctat attgaaataa attttcattg actatgggtg tctctgggaa gtggattaaa 180
gcattgggtg gtctaaagaa atcagaaaag ccagagaagg atggaaatgt gagtctctct 240
ctcataacac ttcataactca tattcctgag tttcagtatt tattttcatg ttatgttggc 300
aaaaataatc atcacctatg gcgcttttaa ctaaggttct gtatcatcat gtagttattt 360
ctaccacac tacccecaaaa gaaaaacaaa agagttttgt tgcttgtgtt tcaactcaag 420
agggaaaaga ttaatggttt tcttgtgcat ttgcgagtgt catact 466

<210> 5417
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 5417

agcttatata tatcgattcg ctcaaaatta aacatcagaa actctcaaga aattcaaata 60
 gtcataacta ttcacacgga tgtccgattc gggcgcataa tatgtcgaga ggctcgaaat 120
 tgaacaacgg aagctgttga gaaattcaac tgggtataact ttttacaccg atgtcccatt 180
 cgggcgcata atatgtcgag aagctcgata ttgaacaacg aaagttcttt agaaattcaa 240
 atggtcataa cttttcacac ggatgtccga ttcaggctta taatatatcg atacgtcca 300
 aattaagcat ccgaaactct cgcgaaaatc aaatgggcat aacttttcac acggatgt 358

<210> 5418
 <211> 237
 <212> DNA
 <213> Glycine max

<400> 5418

tgaatcggac atccgtgtga aaagttataa ccatttgaat ttctctagag cttccgttgt 60
 tcaatttcga acttctcgat atgtgatttg cctgaatcgg acatccgtgt gaaaagttat 120
 accagttgaa tttctcaaga gcttccgttg ttcaattttg agcgtctcga tatgtgattt 180
 gcctgaatcc gacatccgtg tgaaaaggta tgccccctga atttttcacg agctttc 237

<210> 5419
 <211> 533
 <212> DNA
 <213> Glycine max

<400> 5419

agcttgctcg tcttgctgat atttatcatg cagacttttc tgatgatgac cgaggaacaa 60
 ttagggatca acttgaaact tatgtgcttc aagtgagaag aaatgcttct ttttccactt 120
 gtgaagatgt tcaaagtttg gctatgaaga tgggtcaaac tgagaaacat ttggtatttc 180
 cattggttta taaacttatt gagctagctt tgatattgcg gtgtcgacag catccgttga 240
 aagagctttt tcagcaatga agattatcaa gtctaaattg cgcaataaga tcaacgatgt 300

<210> 5422
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 5422

cgaatcagac atccgtgtga aaagttatga ccatatgaat atctccagag ctaccgttgt 60
 tcaatttcca gcgtctcgat atgtgatttg cctgattcgg acctccttgt gaagagatct 120
 gagcatttac atttgacgag agctttcgtt gttgaacttt cagcgtctcg atatgagatt 180
 ggcttgaatc ggacatccgt ttgaaaactt acgaccattt gaatttctcc agaactatct 240
 ggtgagaatt tccagcgtct ggacatatta tgtgcccgaa tcggat 286

<210> 5423
 <211> 1044
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5423

aaaataacgt gattactcac aacttgcacc acaacttctt cctcaactat tctccgctag 60
 tatatgtaat gtctaataatc tccancacan aacctccaac caaccaagat gaaaattgat 120
 tgcacgcgat tccactccga aactcaccga gacacctctt gaagcgatct cgcacgcgatg 180
 aaaaaataaa tgagtctatg agatatatta tctcataaat ctctaaaaca acaccagggg 240
 gtaggggtac tgtattctaa ttaaactacta caacagttaa tctttaacta aaatctgcaa 300
 gaattctcaa tccaatactg tatctatatt gcacacacaa agcgggggtt gaacttctta 360
 taactccgga aaaaagattc tcctctcgaa taattcaaac tagcttggtg tcttctaacg 420
 ttaaatgaat tacttctaaa aagcgtgtac aaaattcaat taacttaatc gcaattcgaa 480
 actacaacat acacgcggcc ctggtactta gacgtaatcg gcgccaaacc caactaccta 540
 cgcattggctt acaacgcaat cttacattag aagcaaacta tttaaaatac ctccctaata 600
 agcgttaagc aatttagaaa tttctccact atatatttaa tacctttcat atatcacctt 660
 aaaaacaaaa caactctgtc actaacaaaa aattttataa gccatacaca tgcaaaattt 720
 tcttttataa aaaacacaag gccaccgcaa caataagtta cataacaaac ttgatatctt 780

<212> DNA
<213> Glycine max

<400> 5425

agcttcaccg gatgatgccg atcgaacatt tcctaacga catcatccaa ttgttattca 60
gggattgaat aaaataaaca atggccgggg tccgtcgta tatggcccg actgatattc 120
ttcagccgac attgcgcaat ttcttttaca aacgctggcc gataatgttt ttttatttac 180
ggtagaggaa gttttttt 197

<210> 5426
<211> 345
<212> DNA
<213> Glycine max

<400> 5426

agcatctcaa tatgtgatgt gctgaatcg gacctctgtg agaaaagata tgaccattag 60
aatatgtgga catcttctga agttcaagt atagagtgtc tcaatatgag atgtgcctaa 120
atccgacctc cgagtgaata tctatgacaa ttgaatttc tcagaatctt acgctgggtca 180
ataaagagcg tccccatatg tgatgtgcct gaatccgact accctgtgaa aacttatgac 240
cattttgaat ttctccaaaa gaatttgtcc ggccatatgg agcatccatg atatattagt 300
gcgactgatt cccacattcg atggaaaagt tatgaacttt taaat 345

<210> 5427
<211> 443
<212> DNA
<213> Glycine max

<400> 5427

agcttctggt gggacatctt gacttgcttt ccaatctgac attcaccaca gattctgcct 60
tcttctatct tcagattggg aatgcctcta atagcacctt tgtcaatgat tttcttcatg 120
cctcttaagt gcagatatcc aaatctttga tgccatattc tgacttcata ttctttggag 180
gatagacatg tggaggagta actggtttct tgagggtgtc ataggtagca gttgtccttt 240
gatctgctgc ccttcattag aacttcacac ttctcatttg tcaactaagca ttctgacttt 300
gtgaagttta cattgaatcc ttcacacac agctgactga tgctgatcaa agttgcagtc 360
agtcccttca ccaacaggac ttgtccaga ctaagaaagt catcatggac tataacttccc 420

attccagaga tcttttcttt aaa

443

<210> 5428
<211> 466
<212> DNA
<213> Glycine max

<400> 5428

tttcgattca ttctatgtac ccgtgggtggc ccacattgtg tttcgcgtat ttttattctc 60
gtttcattta ctttttatac ccccttttga cgtgcttaag ccatcttatt taagtcattt 120
ctcgcgttaa ctaaaaataa aataaatttc caccgatcgt ttgaattgta ttatccgtta 180
acttcgggta aaatgaattc cgaccgttcg gttgtgccgt aaccacgttg gaaattaaaa 240
aaaaaaaaaga ggtaaaaaat aatataataa taaaaaaaca tcttttttagt aaaataaagc 300
ggaaaatcaa tcggacgttt tctctttggg atttctcatt ctttaaccgaa ttgactaata 360
actaaagtga aactaaggct aaaatcaact ctctagtca agctcgtcca taaaaatagg 420
gtttttgaag tttgtcattt caatttctta cctaataaaa tggatc 466

<210> 5429
<211> 477
<212> DNA
<213> Glycine max

<400> 5429

agctttcaac aaatgtcttc acaaataatc atcacacagc agaaaactaa caaaactacc 60
cctcatatct cccaaaaccc catacccacg aaaatcaaga gggaaagaag tccacccaaa 120
cctgaaattt cgaagtccca ctctagcca cgcactttac gactccaaaa atgctctcct 180
ttcacgattt ggggcagaaa tgggtggcca aggttgaagc tttgcttgaa gcttcaatgg 240
agaatgaaga agaagaaagc tacgtgagag agggagagaa aaggcttctg aatttctgct 300
ttggctgagt gaggagagag aaaagctttt tggttttaaa aaaaaataag aaggggtttc 360
cctttttttt ccattatttt attcaagctc tgccacatgt cccttattga ttggagcaaa 420
aaggccact ttctcttttt gactgtgacc cataactcaag cacaaaagtg agaaaaa 477

<210> 5430
<211> 521

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5430

tcactgaata gcttgtgtta ttgaagaata ttcttcttga atagaacacg ttacccaaaa 60
 atcagtagca ggcaaataag atattatgtc ttgcacatat ggagtaccaa aaaatacatg 120
 catgccctaa taattacatt ttgtatagaa atcagtttgt cgaaacacac aaatacccca 180
 caagtgggta tcacagtaca aattgaagga taacacatgt agtgatgatg caacgaaaaa 240
 caacaactat ttagcaaagg tgtgctaata tctttcaatt attccaaggt tgcagtgatt 300
 gttttctaata ggacatgata caaaaaaact taacatggca tgcagctggg agaaaaagtg 360
 atggattgct ccaacatccc gttgattatc cctaatagaa gacaattgat catttgtatc 420
 ctanatttgc ataggaccta tganacctaa ggcttgggtc tgcttcagct ggaatgaatc 480
 atgttggttaa cttaagcacc aaccataatt catggcatgt t 521

<210> 5431
 <211> 798
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5431

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 gtgcgcccta tctgaatgag tggcattata acgcgctaac tgccatcatc acgaggggac 120
 cgcacatgtt gcagttaaac caacaatgtt tttgaaaatc aacagtgcac gaaatgttgt 180
 aactacgaa cataactatt gcacgacaga tggaggtgtt gggcatcctt gaaaaggatg 240
 tgtaccacct gcaacattaa caggtcgggt ttgggtttat aaagtgagct ataagagaag 300
 agacattctc tcccttatgt tagtgcaatc acccttaata tccctagcgaa atgatgtata 360
 gtatcaacca ttttcgttgc gagttttact gtattctgca tagatgaagc ttataaaaac 420
 gccgtatttc gtgaagaata tgtgaatttt actataaatt taagactatc aatcatcccc 480
 ttataagaat actctttttt gaaaaatgtc ccattataag acattagatg tcttattcat 540
 gaaagactta gttcattgaa cataagaaac caatntatct gttgtgtagt tgacctgtcc 600
 aattatgcgg tattttatctt aaacttctct ccaccgtgct ggaaaattaa caaagaagag 660

<400> 5434

cccgagagca tctgtattta agcacttcag ccttagcttt tctgtagctt atgaaaaacg 60
tcaattcttc ttctttcttt ctttcaaage catttctaaa gttccaagca ctttctccat 120
caccacagc caccattagc aaccacaaac catcattggt ctccattgaa aaccacacc 180
gagaggaacc cttcaaccga agcggaatct tccaacttgg cttgcggttc cggtagagaa 240
cgaaaaccct aatctgacct ttcaaggtaa ccatgggtct atgcttattt cttgttaggt 300
ccatattgtc ttgtcatctt ttctgccttt ggaaccgcca ttgcatgtct tatgcttcct 360
ttgaaaaacc ttagagaaat agactttggg aacgttatac tttcatgaaa tgcattgtat 420
tttcgtaaac aacactgaac ccccggaaca ttggcgtggg gcggaatttc aaatgacgtt 480
cctttgt 487

<210> 5435

<211> 566

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5435

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ataccacat ttgttgcgt taagccaata aggtttttga attaaagctg tgaaaagaag 120
gttgtagact tgaacaaact atgtatgttt aatggattgt ttggtctctt gaaaaggatg 180
tgtaccactg aaaaacattt gaagggtcag tgtagtgggt ttataatgtg agctatttga 240
gaagtgtcgt tctctccctt atttttgtgc agtcaccctt aatattataa cgaaatttgt 300
ttaaatataa accatttttg ttaaggatat gtactttttt ctgtaaaaaa aatgcttaaa 360
ttatgttagt atttctgaa atatatttga attttattat tattttttga taaatttttt 420
ctttattttt tgcttcctaa tatttgaaaa aggtccatt antagccatt aaatgtctaa 480
tacatgaatg tctttattaa taaattaaaa aanattttt tatatttttt cttctttttc 540
cgatcatcct tcattttttt tctttc 566

<210> 5436

<211> 481

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5436

tgagcaagat ttgttgaacg gggaagcaag atatgacaca aaatatagtg catgatacga 60
cattcaaaag tgaatgaacc aacaagcaat tgaccagaca tataagcatt ttcagtgcaa 120
accatthttgt gggcatcatg atttgaataa atatgcttcc agtcatcaac caaagcgccc 180
tcaaaaggta caccttgact actcaatttt gtcaatgaat aaaataagga ctaatcaacc 240
acaatgggaa ttttatgcac ctcaaaaaag ataacacccat ctgaatttc agattattat 300
aaaaaacata gactaattca gaatagtatg acatthttgag agtcataaaa tcgattaatt 360
cagaatthttg aaagacttga tggtaatcaa aagtctctcc ttcaaagaat tntaagtcta 420
aatatthttggg atcaagaatg actcgattgg anaatgagga atagtacctt tgacgttgat 480
c 481

<210> 5437

<211> 488

<212> DNA

<213> Glycine max

<400> 5437

agcttctata taagctgaac cattttatca ataaagacaa gttgagthttt attcagaaaa 60
ttagagthtta tctctthttat cttagtgaaga gtgattctcc taaattcttg agtgattcaa 120
gaacaccttg gctgtatcaa aggactthtca caacctthtg gtgttgccct tgctggaaag 180
agtgaatctt tcttctctt catcatcacc ctgttcttth caaaccacaa ttccagaaaa 240
tccacctctg cccagaatta tctcgtggcc ataactccca ttttacgcac tcaaattaag 300
tgattcttga gcctaaattg aatttcaaaa cgagacctt cacctcgtt tggaatcacc 360
tcatttgag ccctgtagct tcagttattg ccatttctat atttctgtcc agccaccact 420
taacctacgt tttaccatcc cattcatcca ttttatgcca agaaccacct tattaagacc 480
cacgaaat 488

<210> 5438

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 5438

ntntggagta gaaacatggg accaactcat tttatttcaa aaagtcgtat ctagtcaagg 60
tctgagagac cgtacaagtt tcttagcgat ttctaattat gtgggtcatt aagtctatca 120
tatgctgaca atagctgaga agcccgtaga tttcttcggg ggccggagtag gtgtctgcca 180
tcgccttggc cttggctaac aatcggggaa gttcttgact cctgttcaag gtaagagcaa 240
accgatccat ccacatgggt gcctcttggg gtaaagagtc gatcaccctt cctctagcct 300
ctttttccgc gtatacttgg gcatactcgt ccgcgaccct atgctcgtgg gccgtggcta 360
gacctaactc ttcttggtag ttggcgatga tagctagcat gttggctctt gtctcgcata 420
aacgctg 427

<210> 5439
<211> 544
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5439

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tctgctaagc gcaacactca tgggttaagc acaaggaaga ctctagaaga agatgagttg 120
tacaggttcg ctaagcacac tgcttcatcc cactaagcgc atcgcttcag ttcattagct 180
aagcgagaaa ggcacgcgct tagccgaaat tcactaatat gcgctaagcg atccataagt 240
gcgttaagcg cacgagcacg aacaaggcca cctatttaaa cctgaaataa gatttttagag 300
agagagtttg gactgggatt caaagctttg catgtagagg gtttctagag agagaacagt 360
ccatgttcta gagagttttg agagaaatgg ctgtgtgata atctgcaaag accatagctt 420
gaagcaggag ccagttntag agcttgagat gagtttatga gtgattgtga gacctanag 480
atgagggaga catnctcacc acttgatattt ttgcaatctt tcactcttggc cttctctttc 540
ttga 544

<210> 5440
<211> 457
<212> DNA
<213> Glycine max

<400> 5440

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aaaaacgtca tttctttcttc tttcttttctt ccaaagccat ttctaaagtt ccaagcactt 120
tctccatcac ccacagccac cattagcaac cacaaacat cattgttctc cattgaaaac 180
ccacaccgag aggaaccctt caaccgaagc ggaatcttcc aacttggctt gcggttccgg 240
tagagaacga aaaccctaata ctgacctttc aaggtaacca tggttctatg cttatttctt 300
gttagtttca tattgtcttt gcatcttttc tgcctttgga accgccattg catgtcttat 360
gcttcctttg aaaaacctta gagaaataga ctttgtaaac gttatccttt catgaaatgc 420
atgttatctt cgtaacctac actgaacccc ggtcaca 457

<210> 5441

<211> 536

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5441

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ggttcacaaa aaaattttaag cttttgtatt gggagaaata aagaaacaaa caaatgtag 120
tcagagaatc aaagaaaaca aacttgtttg agataaaaat cgaagctttt tgtagattag 180
tgtcttggtc caccttctct gcatacaata gcaaaggat tgtgagaagt cagaaaataa 240
aataaaaaaa attaaacttt ttgtagtgcg agaacttaga aaacaaaata aaggaagaac 300
acctaaaaaa ttaaagcttt tgtcttggtga aaatcataa aaccccaaaa aaatgggtat 360
aagaaagaat gaacacattt gagaaggctg acgaaaacga naaaatttaa ccctaaacca 420
aaaaaacaaa gaaaatgaac ccatactcgt ggagttttca aataaaaact gcagttgtag 480
tctgctctcc acctcctctg catgcaatag aggttgacta aaaaaatgta agcttt 536

<210> 5442

<211> 489

<212> DNA

<213> Glycine max

<400> 5442

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tcttaatcgt ttgtgatttg ttttgagggtg taagggtttt taaaattgga atgttttgta 120
aaaaaaaaat tataagcaaa tgtaattgt tagttttttt tgtagcacg agggattgaa 180
tcgcaaggcg gcgacctttc cctccttccc ttctttctta aacacccaac caaccttata 240
tctccctggt ttgttagttt gttagttttt ttaaaaaaa ttggaatggt ttgtaattgt 300
tgggataatg gtttcctgtg gtttggtatc tctggtattg actttaaaat tgtgtgtgtg 360
tgtgtgtgtg tgtgtttgcc acgtgacgtc gcctcatgcg aacatgtatc actttggaga 420
tcatgtggat tctggtaatt ttgcatttac cgcattctgag tcttgtgact actcaacttg 480
cttttgggt 489

<210> 5443
<211> 463
<212> DNA
<213> Glycine max

<400> 5443

ctaactgcac gcgtgcgagc ttgaatttgg aattgggaaa gcccactcc atcattatga 60
ttaggacctg acatctcata ccaaccaatt atacgtaaca agacaattat agttgctggt 120
tgaatacctc acccactcca gtgtttcaca caattatggc ttttctataa tgaaacactc 180
ttgcctttta cactctaat ttcccttgag ttcttaagca attcaagaga ttatgggcac 240
aaciaaagaac aattcaccaa tatgtgtaag gtaaggctag acaaggaaaa gggtgaccaa 300
aaaaaaggct gacaatgtgt ttaggtcaa atgaaggaaa taaaattcat aatttatgaa 360
attaagtaac aatgctttat gccaccaata tattacctta aagagagttt tttttttaag 420
tccttcaagc atgaaccatt cagccccatt tttttttttt tta 463

<210> 5444
<211> 221
<212> DNA
<213> Glycine max

<400> 5444

gtgtgaaaag aattgaccat ttgaattttt cgataggggg cgaagggtgaa tgttttagcct 60
catgactata ttatgcgccc gaatgagaca tccgaggggc atgttataga tacgcgattt 120

cttctagaac ttttgagagt gctttccagc ctaagcacat gttttccacc cgcttgggac 180
ccacccttgc cattgaacga caagttttgt agagatgcag c 221

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<210>      5445
<211>      805
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      5445
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gcaatctagt	aagccctcgt	gccctgactt	tgttgtcttg	gctgttggtg	ctaaaatatt	120
gaggggtggac	ctgctttttg	gttgagaagc	aaagtctata	ctgtttgggg	gaggaaagaa	180
tctccatttt	tccactctag	gactttctga	acctttgaga	ggtcacttta	cacagcatag	240
ttgctcttgc	ctatcaccca	agagtcttgc	ctttcctttt	aatggagggg	cagttttatt	300
gcgatccaca	tcacttctaa	tttgtgcact	cctcccctta	aaacccttcg	atttagtgcc	360
tttcgttcog	agatcctctt	tcttaatcat	tccttttctc	taaggtagtc	attccttgaa	420
catgagctcc	ttccttcaca	tattgccatt	ggactacgtg	ggagcaaatt	cctaggggtc	480
cattcagcac	ccccctcatg	gatcaagagg	gcccttttaa	tgcgctgtcc	tctcatcaca	540
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ccataatttg	aggagatgaa	tcatttcctt	caatcctaag	cggggggagga	cgaatccctt	660
aactaatttt	gttccttact	cctttcacaa	ggttccttct	ttgacagtat	gtggaactat	720
acgttccatg	gatcccgcac	catgttcttc	ctgctgggcg	aaacttttat	tcctttgttg	780
gaagaactcg	gcgtttttctc	tctct				805

<210>	5446
<211>	414
<212>	DNA
<213>	Glycine max
<400>	5446

tgaagaggat	gctctaattg	aggaaaagaa	agagagaagg	gggggagcac	gaaagtgaag	60
gaataaaaga	gggaaataag	tggaactttg	aagtgtatct	cataagactt	tcattcatca	120
aagttacaac	aattgttaca	catgcttcta	tttatagact	aggtagcttg	cttgagaagc	180

tctcttgaga aaacttcatt gagaagcttc tttgagaaaa cttccttgag aagctagagc 240
 ttagctacac acacccctct cataactaag ctcacctcct tgagaagctt ccttaagaag 300
 attcctaaag aagctagagc ttatctacac atacctcttt aatagctaag ctcacctcct 360
 tgagatgaga agcttgaact tagctacaca cccctataa gctaaactca cccc 414

<210> 5447
 <211> 819
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5447

ntgattgaga accatgttat nacctacact atacaatact ctatcttgca tgccagctgg 60
 gcgactctat aggaaacccg ggtaccttct tctaattcac gccatagaga atcggataac 120
 cattcacagg ggcgttgaat accacgtacg agactgggcc aatcctgacg atagccactc 180
 ttaacgcca aggattacat gcccctctca acaggtggcc gtcttcctaa taggcccga 240
 ccgaactatc tttccgactt gtgttcagcc ctaatggata aaggcacctg acgcgggggtt 300
 ttgtccttac tcgtggaagg agttgttgac accgtcctct agccccttct tagtacaata 360
 ctattgtgat gcccgatatg caaatcgatt ctgacaacc gccaataccg cttacgcaaa 420
 ttgcatttgg gcataataaa gtacatattg ggctctaatt cgcaataccc cctcttttac 480
 tattttataa acaattttca tgttgggaca ccattttttt aaccattttt ttacaattat 540
 aaggcccccc tccattcctt tagcgggctaa caagaacttt taattcccc ccattctccg 600
 aaaaacattt taaaataaaa cattttcttt tcaccacat ttgtttccaa caaaggaagc 660
 ttgccctcgg accaggggaa atcacacttt ctcccacacc ctttggcgga aacggaataa 720
 attcatataa acaatatggt tgggggggata ccgttaacca atattctttt ttaaatatga 780
 ataaactttt ctcaataaaa cccgaaactc tctctttcg 819

<210> 5448
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 5448

agctctaact tgttttctat taagctcatt ttaacacatc cacaagtttt gaggtagatt 60
 ttttttttat agaaaattgt gttaagctta tttggataat ctcgggctaa aaccttactt 120
 tactaaactt agagccaatt taagactgtg ttagacgatc ttttaattga tcaatttcaa 180
 gcgctatgcc ttggctgttc ttgaaaaggt gtcttatttg acaaaagggt taaagttttc 240
 actaacaaca ttattcaact caggccttct agtatgtcct atatattgta gatcactaac 300
 tatgatgcag gtactaaagc ctacaaatta tatacattta acaatgggaa gattgctgtg 360
 aatgaaaatg ttttagttgg ggaagaaagc ctaca 395

<210> 5449
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 5449

tattacaaga atatccgatc atatttaaca agctgtggct tattaacaag cctgggtgcct 60
 taagtcctac attggcttct tctctcttta ttaaactgg gcggtcacia atccccctacc 120
 tggtaacaga ttttggcttt tatctgtcgt ggattcacct ttttactgcc aaggaggagca 180
 tactaatata aattctacat tctctttttac ctctagaaa acacggaaca actcgggatcc 240
 gcctctgtac aagtacgtgt tacaatctgc aggggtgaagg ataaaagata aataggctgg 300
 tttcatctta ctggttcccc atcataccca cttttggttc aatatttttt agatctaaaa 360

<210> 5450
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 5450

agcttatatg acaagcaata gtgtagatgt tatatgacat tactcatggt aatgaattta 60
 ttctagtatt taagcttgta ttgtaatttt ttttattaat attgttttat tattgaactt 120
 aaacaaaatt tgatattttac aagcataggt gtttgagcat ctgccaatg ttggttacat 180
 ggaggagag gattacatgg gtggggacct tctataaact aatggaagc tattaagagg 240
 taccgggcgt gccctttcga tcaaggagaa attgaatgag ttatagatga atgttgcatt 300
 ctaatatgca tataaggagc ataagaatgt aaggccttta ctaaagcaaa cactttatat 360

tggtttact

370

<210> 5451
<211> 486
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5451

tcttagaatc agtcattcat ttggcttgaa gctagtcatg gcaatgacaa aatcaaatag 60
gagatttaga acctacaatt ctgatttagg aaagataaca atcgactacg acacatttgt 120
gagcttcgac tcaaaagata tcaacaaaga gaaaaacatg actatgctaa ggattaacga 180
aaggagcaaa gtgatggatg attgatcaga agcactactg gatccagata accccaaata 240
tacggctgca cttcaactgc ataaagtata caaaagcttt cgtacaagaa caaagctagc 300
agattataca attcttattg aacaaagctg gtactttatt tattgtaatg agaacctctg 360
tccttcttta ctaaactctc catgagttnt aattttatct tttggtttta atacatatgt 420
agaagctctt acattntgcc gaactcaagc acaactctat atctttcttt cacattgaga 480
aacatg 486

<210> 5452
<211> 234
<212> DNA
<213> Glycine max

<400> 5452

tgacatttaa tctatgaatc gaagacaatc atacatctaa aattatgggt ggacatgcgt 60
aaagctcatt acttattcaa acttcaaaac aacacatggg ataaccattg tggcatttca 120
tcaaacagtt ggtgtgcgca tggtaaaaca cgtttaaatg acggatgatg agccatttga 180
catgcaaatt tacaaaaaaa acaaggatag gtctacagcc acccatttgg gccca 234

<210> 5453
<211> 451
<212> DNA
<213> Glycine max

<400> 5453

tggaacatat aaactgaatc ctaggccccc ttaaggactt aatcaaaata tttgctggct 60

gatcattaga attaatgaac tcagtataaa tttctttgga cagtagcttc cccgaataaa 120
 gtgacagtca atctctatgt gcttgagcct ctcatggaag actgggtttg aagcaatgtg 180
 aagagcagcc tgattatcgt agtataactt catttgcacc actctgcaga atttcaactc 240
 ttcaagaatt tgtttaccca cataagttcg catgtaacca taccataga tctgtattca 300
 gcctttgcac tagatcgagc aacaacaatt cgcttcttgc ttttgcaaga aataatattt 360
 cctcgaatgg agacagacac aatatcctga tgtggatctc ctatccatgg gatatccaac 420
 ccagtgtgca tcacagtacc cacatatttg t 451

<210> 5454
 <211> 459
 <212> DNA
 <213> Glycine max

<400> 5454
 agcttccaca acatccaagc aaaacaacat tcagacagca caagctatca cagccaagcc 60
 aaacagagca aaggccgaaa actctgccac aacaccaacc aaatcacagc ttttctcact 120
 taaagacccc agtaacaatt cctacgatcc aattcgtaa ccgttggatc gactccaaaa 180
 ttttactgga agtatatagt acatgagcct acattgtgac cgctgggatc tactatcaaa 240
 catccacaac tcattctgca ctactctttc cacagccaac cacacacaag catttttctg 300
 cacaaagcca aaattctgct gcacctattg tgacagcaaa attctgcgta agtgcagatt 360
 tcgaaaatca cactttctct catccaatct tgcccaaatc aattcctaca agtcccaa 420
 catgtatcaa tcattgtctaa accaaagtca agctttaca 459

<210> 5455
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5455
 tgcttcattt tctcctcaag tctagttctt tcgttcttag tgtccgcctt caatttggtt 60
 aagccaattt cactggcatg gaatttcttt tatgatgtat gcccatcga gaagattgaa 120
 ttaaatgcgt ccaaggttta tttgtcatc tcaagcatat accatcttca tatttgtcta 180

attcctcaca tatctctttg atttgttttc gaacatcagg aatagaaaga actgacttga 240
 ggtcttgatt gtcttgagg aaggtagtgt gaaattgttc ccaaaccctt tgatattcag 300
 aaagattgtc aagttgattt gcacttggtt ttgaagcaac tccattttct tcttcatgac 360
 tntccattg gtgcataata gtgttatcat cgtcatcaaa ttcgaacatg ctactctct 419

<210> 5456
 <211> 521
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5456

agcttgccca gagaaggagt ccacggagga aatgcttacc acctcaaaag actggaaagc 60
 ggtttctaata gactcctcta cggttccac ataaggcata gaggatgggc agctcaccaa 120
 gatgtcttcc tcgcctgata cgatgaccag atgcccttcc actacgaatt tcaacttttg 180
 gtcgagtgtt gagggaaaca ctctactga gtggatccac gggcgcccca acagacagct 240
 gtaggggggg ttaatatcca ttatttgga ggtaacttga caggtgtgag ggctatctg 300
 tactgggaga tcgatctctc ccctaacctc ttggcgggtg tcgtcgaagg cacgaaccac 360
 cattgaactc ggctttaagt gggaagcatt gaatggtaat ttctccaaag tgctcttatg 420
 catcacgttt aaactggaac cattatcgat gagcactttt gctacgatat ggtccatata 480
 cttgatngat acgtgcaaag ctttattatg cctctcccc t 521

<210> 5457
 <211> 483
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5457

tgcttctatg tccttttcat tgctttaatt gttgagtaat ccttgaaaaa ttgtcttggt 60
 aaaattccat tggtttagct ttcatttcat tttatttggc ctttggttat tacttgtctc 120
 tttgttccct tgtttggttg ttgccatata gggaattgga aggaggattg gtgccatccc 180
 ttgaagaatt tgagttaaga agaaaggggc caaccacctt aagagctatt ggactaagaa 240
 gcactccaaa ttgagtgaat caccaaagag agaacaacca ccaaattga ggactgttct 300

gtaattttgt aatttgcaat ttacttacct tcattgcttt caagttttgt aacaaaaagg 360
 cgtttcattg gaagtgtggt gggagcctcc aattggttac caaacttcca tttgtgtgta 420
 ataatttttag gcaatntttc ottangatag tgagtgtttt gttgggaacc ttgaatgtgg 480
 tca 483

<210> 5458
 <211> 586
 <212> DNA
 <213> Glycine max

<400> 5458

agcttgcata agacccatat atagtttata atttgccta ttgtcttatt gaacatgagc 60
 aaaaattgca tcccattttg atacaattaa tctttcttta atcactttgg tttgttgttg 120
 tagtctttca ttatgaaaaa aatctgaact acatagataa caattagaaa aagtgggtgat 180
 tgtggcaatg atcactttta aatagtcaat aaaaaaaaaat cccttaaact cccacatcta 240
 attctcttgg accatgaaaa aacatgacag ttaaaaaataa aacaatttga atatgtgatc 300
 cctggactat attaattgatc taatgattaa attaatgtta tgattttctt ttatgtgtag 360
 aaatcaaata taatattaaa aatttataat aactcacaca ctctactcaa tcaaactaat 420
 aagatttttt aaaagattaa atattaatga tgataagaga aaattatgta tttcttttta 480
 tttattctcc atgaagataa gggatttgat aacagacgaa atccccttaa tcatacataa 540
 catcaacatt atatcaagga aaaaaaaact atatgaattt caataa 586

<210> 5459
 <211> 564
 <212> DNA
 <213> Glycine max

<400> 5459

tcccctgtag taattaaagc taatagattg ccaatcttat cctcaccctt tttcttttag 60
 gcaaatatta ttcaatgcac ttaggactta taaggatatt gatttaaaaa tttaaagtaa 120
 aaatattttt attagaaaat aaaaaattat attatttata atttttttct ttctattat 180
 ttatacaata aatatatata tattttttatt ttaatttctt aaccaatgct gcaaaggtat 240
 tagttaggat aaaacttgct taaattacag gcatacccac tctctcactc aagttaaacc 300

tgcttaaatt ataggataaa acttctagag aagggtataa aatataatat attcattcaa 360
 gatttaaatt aagtatatta atttttttgg ttcagatttt ttttatattc taaatgaaat 420
 aaaacatttc acttttttta tataattcta aactatctat gataataaat catcaatatt 480
 ttaactagaa taatacatgt gatataattg gaaatacacc ttatctcctt aatatgtggt 540
 tagaaattga ttcctaatat gaat 564

<210> 5460
 <211> 464
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 5460

agctnggggt tgattggttg gtatttttat attttgtttt tattgtgcga caactgttta 60
 tttttaaaag attagaattc tgatcttttt tatatcttta tattttcttc aaattatatt 120
 ccttgagatg ttatattatt tttattttat ccaaaatgaa attcatgttt tcaacggaaa 180
 ataaaatgaa attcatgttt ttcttaccac cacattttca ttttatccaa aatgagggtt 240
 gtgatttcaa ttgaaaatac ttcccgctct tgggtcatct ggacaaaata tttttaccga 300
 aaatgttttc aaaaattcca accaaacgca tttttatcac cattttctat ttatagttaa 360
 aataaaaata agaaacaatc aaaccaaaca tgctaacacg ttacattatc ctccatgaaa 420
 aatttaatat ttttggtggt gttacaatga gaagttaaatt tttt 464

<210> 5461
 <211> 453
 <212> DNA
 <213> Glycine max

 <400> 5461

tgtgaaaaga aaaaggttct tacggaagaa agtggcatta caagttaata ttctacagaa 60
 ttacagaaat caaaacatag tgggtggatg acagagcatc ctgcagaatt ctctcctttt 120
 tgaagtccaa aaaggaacag ttggagggct ctggtaacac ccatctattg aaatttgaaa 180
 gtactaaagt tcattctttt accagtggaa gttatactac aagttttaag acgagggttca 240
 caatggaacc cctaattcag gaggatcagc caaggctttt catcataggt tcacaacatc 300
 tagatttgac aactctggta gggatggatt ggggaagtta taactggtgg tagctttctt 360

gattatacta tatctgtaaa ccaatataat caccttcatt ttgaagttct taaatttata 420
 ttcattctct tcttttcttt tattctttct ata 453

<210> 5462
 <211> 510
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5462

agctntgagg gatcaaagaa gaaatagcaa tatgggtgctg attattttct ctgtcctttt 60
 cgctctatcc acaaaagaaa cagtgcgtgtt tgaatttgat cattgtattg ctagattttt 120
 gtagttatat gaattttctt tttgaattgg ttcaatgagt gcatgcatac attttgtttag 180
 atttttatgg gactagactt acgctcatga gacttataat tttctgactt ttttatttgc 240
 ttttggtctt ttgccttttg ccttttgatt tcgttactta ttaaaacatt gctgttggtt 300
 gccattggag tttgtgagaa gacttcgtac tagtattttt ttgagtgcgtg ttattttact 360
 ttattattgc taatgaataa cagcttttga atgtattaag gagtaataat acattagtat 420
 tatctgatac actattgata atctttaaac caaaataaat taagagcaat tggttagttt 480
 attaaattat aaactgaaaa aatgggtttac 510

<210> 5463
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 5463

tcttgcactt caagaaggcc tatttgtaag ttctaaatct ctagaaatag ccattattga 60
 gcctattcct ccaataacta gatatctatt gtctttctc cctctctccc tctctgtgtt 120
 aatgtcaaaa ccagtacatc atgataaata ctaattcatc aaatacaaat agttatagca 180
 cacaaaattt attcagtgcc ctctaggttg acttatcttg tatgaatgaa tattcagtgc 240
 caagagccta gtcaccccaa atattcaaac tttaatcttt cgtaatagaa gttagaaaca 300
 gggttattgt ccttcgtaat tctcatcatg gggttactttt ttcacctcaa cggttatttt 360
 ttttgtctca attttaagtg ctgggtgcgag tacatcaact gcaaaccga gtaagttaat 420

aatgaccaat a

431

<210> 5464
<211> 517
<212> DNA
<213> Glycine max

<400> 5464

agcttataag aacaaaattg ccttaatcat taccaaatat gcatgtgaat taggacgcat 60
caacaagaat caaaccaagg ctattgtgca agcaatcaat ggggcaaac acaccaaatg 120
attataatga tggatggctc aaattctcac aaaggtaaaa tcatcacttt caaattgagc 180
tttcaaaact atcatgacat gtagaaaaga atcaaggatt tcaagtcaca aaatgtcaag 240
aactttttatt ttcaaaacaa ttaccatttt cttgaacata tcctataatt caaagaaaaa 300
catgcaaagt cgtacgtgca catgatattg acccaaaata ttaaactgaa aatccgacga 360
aactaacaac attaacaaat taacacaact aacaaattaa caaaaccaac aaaactagca 420
aaaccaaga aactcccccc ccataactta aacaacacat tgcctcaat gtagcacaat 480
taaaagatta aaaacaatta aatcatcaaa gagaatc 517

<210> 5465
<211> 478
<212> DNA
<213> Glycine max

<400> 5465

ctaagcttct atgaaggttc gttcctaatt tctctacaat tgcacacct ctcaatgagc 60
tggtgaagaa aaatgtggca ttacctagg gtgaaaaaca agagcaagcc ttgcttttc 120
tcaaagaaaa gttactaag gcacttggtc tagctctttc tgacttttct aaaacttttg 180
agctagaatg tgaagcctct ggagtgggag ttggagctgt attgttaca ggtgggcacc 240
ctattgctta ttttagtgaa aaaattcata gtgccaccct caactacccc acctatgata 300
aagagcttta tgccttaata agagccctcc aaacttggga acattacctt tgttccaagg 360
aatagtcacat ccatagtgat catcaatcac ttaagtacat tagagggcca agcaagtta 420
acaaaaggca tgcaaatgg gtagagtacc tagagcaatt tccatatgtt atcaata 478

<210> 5466

<211> 476
 <212> DNA
 <213> Glycine max

<400> 5466

agcttcttgc tacattatgg tcaatgagct gcagaatgag gggaaaaagc aattttcctg 60
 ttataaaaaa tatattagcc aattttgatg atgctttctg agaattgaga ggcttgccctc 120
 ctaaaagggg ttgggatcat gctatcattt tgaagagggc tcaaattcct aatatttgcc 180
 cccacatgta tatgcattat caaaagaatg agatagagaa aattgtgaat gatatgcttt 240
 gtgctgtaag gccaacact aaccctttca gtagccctgt tatacttgctc aagaagtatt 300
 gtgtgtggag attttgtata gactatcagg ccatagacaa gtaagcaccg gataaatttc 360
 ctattcccat aatttatgaa ctactaaatg tattgcgtga tgcactgatt tttgtaagat 420
 gaactactct tttgctaaca taaatacact cttaatggctc ttgaacagta taagac 476

<210> 5467
 <211> 492
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5467

tggagaggat gcttcaatgg aggaaaagaa agagggagag atagagagag gggggagcac 60
 caaattgaag gaagaaaaag ggagagaagt tgaactttga gttgtgtctc gcaagactct 120
 cattcatcga agttacaaca agtgttacac atgcttctat ttatagacta cgtatcttcc 180
 ttgagaagct gtcttgagaa aacttccttg agaggcttct ttgagaaaac tttcttgaga 240
 agctagagct taactacaca cacgcctgta ataactaagc tcacctcctt gagaagcttc 300
 cttgggaaga ttcctgaaga agctagagct tacctacaca cacccttat aatagctaag 360
 ctcaccgcga tgccccaata catgaaaata tataaaaaag tgcctattac agagactact 420
 cataatgcct tgaaatacaa cgctaaaacc ctatactact agaatggccn aaataccagg 480
 ccccaaagaa gg 492

<210> 5468
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 5468

agcttccaca aatccctcat gtaagactat gtctaaacta aacaacatta ttgtaacaat 60
ataattaaaa ccaaaactta acctacaaat ccctcatgta aggctaagtt tcaatcctgc 120
ttcaatcaag ttctaaggca ataatacatt tctaatgct aaagtcacct aattgtgcac 180
acaaatgggt gatcagacca aaagcataca aacattaagc attgaaggga gcattgaaca 240
cagaaaacat aatcaattag atattaggta ttacatcag ctgttcatta aaaatcccca 300
aatagggtgt ttagccaacc attaaaaaga aaccctaaca atgaatgaga ttaaaagcag 360
agaatgatag ttccttacac aagaaggggg attcctcctc ctcttctcag tatctcacac 420
tcaactctcta ctcaataatc tctc 444

<210> 5469

<211> 477

<212> DNA

<213> Glycine max

<400> 5469

ttgagccaaa atcctgactc accataaacc ttgaccagg gtgagaatgt caatccttac 60
cctcggaagc aaaaaagaat agaagggaaa tttccaatca aagaaaagag aaggaaaatt 120
tccaatgaaa gaggaaaaag aaaagaaagg aaattcccaa tcaaagagtg ggagaaggaa 180
aaaagaaaag gaagaaaatt cccaaccaa gaatgggaga aagtaaaaaa ggaaggaagc 240
tcttgggtcaa agaaaccaga agaaatgtgc agagaggtct ttggaccaga cgatatctga 300
acagtacaga attgtcacta aatgaacaaa aaggaaggaa aggaaaccac gacctaaaat 360
ggctcttctcc ctttaattac caacaaaat cccgtgcgct agcgaccctt ttttctcgcc 420
ccgcactaaa aaaaaaaca gaaaaaggaa aagcccagga aaatcaaaag ccaaaaa 477

<210> 5470

<211> 806

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5470

ccccctgatg agtctcttga gaaccctctn aaatcgtnag cttgtgaaaa gaaaaagggt 60

gctttctgca taaggtggca ttccacattt tttgtttgac acctggccga caaattcaaa 120
catagtgggtt ggattactga ggagcctgca gaattatttt ctttctgaag aaccaaaaag 180
aacagttgga gggcgcggtgg tacacccatc tattgaaatt ttaaagtact aaagttgata 240
cattaccagg ggggagttat tcttcaaatt accatataac gttcacaatg gaaccctaa 300
ttcacgatga tgaaccgaag aaattaataa aatgcacact tctctttaca ggtgcttggg 360
cctgtgggga tagattgttg aaaaaattac aggagctatt ttccctgatt atacaacggt 420
cgccctacaa aataaaaacc ccccatTTTg acacttcctt aaacaaaaat aaaataaaat 480
aggctgagtt tatatacttt ttactgcgca cgcgccaatt ttaaaccgct ctcaatcttt 540
aaatccctcc caaagcgcaa gcggggctct ctttataatc ctttcaatta atctccctcc 600
ttactccctt caanaatcca ctacccctt ttttaacctt ctctttgaga aatcaatggt 660
ctacaaaata atcggcctga catgatcgaa aaactcctaa cgtgtaactc ttggtgtcat 720
tctcgccata aaacgcctat acataccttg tttacatcc ttccaattgg tactaccacg 780
gactcgaaat cacaaaggat atttcc 806

<210> 5471
<211> 372
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 5471

gctttgaaan ataataactt gaattttaaa ataccattt tctctcccc tttggcaaca 60
tcaaaaaggc caaagtgcgt gaaacatgaa taatttaatc atacacaaag cataatttgt 120
aaaacaaaca tataagattc taaaaacata cataaagcat aattttaata aaaccaaatt 180
gagatgcaaa ccacttagtc atatatcaca aaataaccaa gtctaagtat aaaacataag 240
catctaagtg ccaaataaag acaccaagat cagtcataat taactaagta ccaaatacct 300
aaaacataac taatgttcac agaataaata aataacataa tgggtgtaaatt cattcacaaa 360
acataataaa ag 372

<210> 5472
<211> 514
<212> DNA
<213> Glycine max

[illegible]

<210>	5473
<211>	414
<212>	DNA
<213>	Glycine max

agctttctta	gtacaaaatg	catattcttt	ttgtgattgg	tatttgaata	taattcattg	60
tatacatacc	tgaattggag	tagtatctta	gtagtttttt	gggtgaacat	tagaagtaaa	120
tgtatggata	ggtcatacac	agaggactta	ggttctggtt	ttttttttgt	atatgttttg	180
tgttgatgta	attatctctc	attgcacaac	tagtacatgt	atatgtatca	tttttttcta	240
aatacatatc	aatttgctat	aaaaagggtt	gtttttaata	agcaaaaatg	aaagctatgc	300
tctaacccaa	atacacaatc	cacatatttg	ctactttaca	aagtgaaaaa	tgtattattt	360
tggataaaatt	ttgtgttttg	ataaaaaaca	attcatgggt	taaaaaaaaa	acta	414

<210>	5474
<211>	455
<212>	DNA
<213>	Glycine max

ttgagccaaa atcctgattc accataaacc ttgaccagg gtgagaatgt caatccttac 60
cctcggaagc aaaaaaagaa tagaggggaa atttccaatc aaagaaaaag agaaggaaaa 120

tttccaatga aagcaaaaaa agaaaagaag gaaaattccc caatcaaaga gtgggagaaa 180
gcaaaaaaag aaaagaagga aaattcccca atcaaagagt gggagaaagc aaaaagaaaa 240
gaaaggaaaa ttcccaatca aagaatggga gaaagtaaaa aaggaagaag aagaaggaaa 300
gaaagtcctt gatcagggat cgaaggaaaa acagaagata tgtgcagaga ggtctttgga 360
ccggacaata tctgaacaat acagaattgt caccaaata aaaaaaaga aggaaaggaa 420
accacgacct aaaatggtct tctccctttg attac 455

<210> 5475
<211> 323
<212> DNA
<213> Glycine max

<400> 5475

agcttgatgt gagaaagcgt ggaagagtca gtcttctac ttttgtttgt tgaccacaga 60
gtggtacctg gagatatgtc gcgggggtca ggagacctg gggacgtcag gtggggtgct 120
attgcccaaa accaagcttg accaatcccg acccaaccg ggcatagtca gtcagtgaga 180
acctgtgacg tacctaagca ggcgagctcc tggcagtcaa ccaataaaag aataaagtcc 240
acaaagcaag gaggcttgtg tggcggctgg cccactatga atcttgagtg gtatctggaa 300
aatggcctct ggtaatcgat tac 323

<210> 5476
<211> 505
<212> DNA
<213> Glycine max

<400> 5476

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ctttggtttc ttggtcttga tttggactta aaataaaact tgtgtttctt ttgtcttggc 120
atcatcaaga ccatcataca catacattca caaacatcgc tatattgtcg taacaaccca 180
ttgtcttttg aaccatggat ccctcccact caagtttttg tgttatgcat tgtaaatcgc 240
aacgtgtctc atcaatcgga tgccctctct cactactaaac gaaaagtctc cattagaagt 300
cttggtttcat cgtccatcaa attatagtaa actaaaagct tttggttatc tttgttttcc 360
ttggttcact ccatatacaa ctaacaaact tcagaccaag tccgtaccat gtgtttctta 420

ggttacaatc ttactcaaag tgcatacttt ttgttatgat ctttcagagt ctaagttgtc 480
acctcccgca tggtgaatca ttgaa 505

<210> 5477
<211> 440
<212> DNA
<213> Glycine max

<400> 5477

agctatagat attagctgaa agactcatgg atgactttat ctctaaaatg caccctgatg 60
aaagagcccc tctcacttga agcgtggaat tgtaccttat gttgaaattt gactttttac 120
atagagtaaa gtggggacga ggtcaaactt ttgaccagtg gccggcgaag ctttgatacc 180
aaaattaaag aaaatggttt acagaaattg tttgttaggc agcataaatg ttttagtatt 240
tacaaatcct atttacaaaa tcagagtact tctaacttaa cacaaatata ataacttgta 300
tagtaatcag taggcttaat taattatact tttggctcct ttgtgatagt caatgtgtga 360
tttttgtcct cttataattc tttgcagcaa tcaaatactc cattgtttcc aattaaaaat 420
acttttggct cctttatgat 440

<210> 5478
<211> 481
<212> DNA
<213> Glycine max

<400> 5478

tgcttctaca tatgggttct atcgcacaga atggcatgat cactggctga catattctca 60
attagctctg ttgctttttt ggggtcttca gctttatttt tccccctgca gaagcatcta 120
gcaatttctt ggtttgtggt atcagcccat ctataaacat attcaattga attgtcttgg 180
aaaacctatg ggtgggagtt cttctcaata aacctctgaa cctctccaat gcttcaactca 240
tagattcatc acggaactga tgaaatgaag agattacagc tttcccttcc gcagtcttgg 300
actctgggaa gtatttcttt agaaactttt caacaacttt tcccccaagtt ttcagactgt 360
tacccttaaa taagtgaagc cacctcattt gctctcctgc caatgagaat gagaatatgc 420
tgagtcta at agccttatct ggcacaccgg caatcttaac actgttgc at attttaatga 480
a 481

<210> 5479
 <211> 571
 <212> DNA
 <213> Glycine max

<400> 5479

agcttgacta tatacctctt ccattgtgct aagcatgcta tttacaacat cttttcgtga 60
 agaaagactg aaccaccaag gaaacaattc gaaacacctg aaagcaaac tcgataaagg 120
 aaatcatggt accaagcaat acataaattg gctacatagt gtataaacat gtatctatta 180
 ggaatggatg ctcccatggt aaaattccat attatcttgc catgtaaaag ttttgtctca 240
 atgtctccat agacatttgt gtgagctcta ttaaaatttg tgaatatttt caaagagact 300
 ataaataagt aaaagatttc ttagaaattg ggcttaaggc cttagtgtca ccacaatgaa 360
 gacagttgag ggtttgtgaa agcatagtct cccaagtcaa gaggctttta taccaactat 420
 aaataaagtg acaactatat tggttctccc accaatttct gcccaggagg aatacaaatg 480
 tatataggct gcctaataat tctaatactaa taataccagc aaaaagaaac ctgtttgcat 540
 tctaataata ataaaaccag gcaactaatt t 571

<210> 5480
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 5480

tattgtggct tgataacctg cgaaaaaatg ataaaatggg atcattatat tactcagaac 60
 aactcttcta ctttatgcta atactaaaga cattaattgc attaaggaaa ttatccctc 120
 taatttggca cgtgtatgaa agaataatta caatgtacgt aatggaaaca tgcataaaat 180
 gggttaaaga attcatacaa ccttgggttt gtttcaattg ataattacaa attcagagac 240
 gtccttacia attcagatga taattacaat gtgccgtaat aaagccgtcg taagttcata 300
 agctgatcct ggctgggtcaa cctgcatgag atcgtagtag atgttatcat cgattaca 358

<210> 5481
 <211> 158
 <212> DNA
 <213> Glycine max

<400> 5481

tattgaatat aactttttct aatgtctcgc tcacgaaatt ataatcgtca acccgtattt 60
cttttgtttt tccccccggc catctcttca caacgggaaa attttacagt cacaaatcccc 120
cattcctcac cgggccatct tttttttctc cctccctt 158

<210> 5482

<211> 637

<212> DNA

<213> Glycine max

<400> 5482

gcttgtctta agttctgaga gacaaaagga gtcattgtact tatgaagatc tcttaccaag 60
tttatgtagt attttgctac cttttgtcct gtctcatacc tatctgcttt gtattggatc 120
atccacaggt tccccgctct atgagggaaa gcagtttctg ttgatggatt ctcagccatt 180
cttccaccat aaggggttgaa atacattact gctttctcta attcaatcat cttcttccaa 240
atccctccca accctccttg ggtattggtc tcttcacata gtcagatttc cttttcaagt 300
acttgagaga ccaaggttgt ctctctagca aaatctcaac tgggggttgca atgtccatgt 360
tgtaccaaaa cagcacggat tgaagccagc ttgtttcgat gcattcagat tgcttcaacc 420
ccaattaagg agacctctcc tccatgacag aaaacagagt tttggagtcg ctgaggaaga 480
gagctatgaa ggtagccctt cactgtcttt atgatcttct gttggagata attctgttcg 540
agacattggt gatcaactaa tatggacact tcttcaaatt taagtcttga ttcattcacgt 600
tgctggagac tattaacccc ttttgttggt ctcaact 637

<210> 5483

<211> 483

<212> DNA

<213> Glycine max

<400> 5483

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gtgttgcttc tgcccttatg gtgggttaagc attcaaata tgtgttttgc ttctgtcttg 120
agtgggttaag caccatgttt agcttctgct cttgatgggt aagctttggt gattctgctt 180
ataaggtggt taagcacttg ttgttggttc gcttctgtct tgagtgggtta agcatcatgt 240

ttggcttatg ctctggatgg ttaggctttg ttgcttctac ctatatgatg gttaagtact 300
 tgttggtggc ttgcttctat cttgagtggg taagcatcat gcgtagcttc tgctcttgat 360
 gattaagttt ggtttgcttc taccttttat gtgggtaaat ggtaagcat tgtgttggtg 420
 cttctgctta atgggtaagc atattccaaa tgtctttgaa tgttttcagt cattgtcaat 480
 ctg 483

<210> 5484
 <211> 543
 <212> DNA
 <213> Glycine max

<400> 5484

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 aattagtatc cttagagtat taattaagga actaaaggag aaagattttc ttaaaaaata 120
 tacaaaatta ttttatttat gacttttttt acttttatta tttctattat aaatattttt 180
 tcatttagtg tcctaagggt agcaagacca tatatatata ttttcctttg gcggatcgaa 240
 ataaataaaa aatcttttga gccttggtga cgagattcta gagggtaatt tgaagaaaaa 300
 gatcattgta aacagttgta gcatttggtg ctagagaaat gattatttgg actcaccagg 360
 ttcactagag cagacttggc tttaactttt tcagacagct tcaaattaat tccatttttc 420
 attatcaaat tgaataaagc acatgatcaa atctttcaca gtttttattt ttattagata 480
 tatgtttcac agttttaatt aaaaaaatca acatgtcatt atttattaga agactctgat 540
 gac 543

<210> 5485
 <211> 585
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5485

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 atggcttttg ttactgtcaa ctatttgagg ttcaaataaa tcagggtcca cagatctttt 120
 gtcatttggt tcaatagttc atttcatttg tatataactt ccgtgtgatt taatcatgat 180

gtgatacatg tgcatttgaa taaattctta taagcttggt caactcattt gaagtttttg 240
 tttgtttgaa gtccgtgaat cataaaattc atgtttataa tactattgtc tgggtcaatg 300
 cagtgcatac agaggactat acatttctca ctggatctat cgctacttta ctgagcccca 360
 ctttgtccat tggataagta tgatttcttc ttattgtgtt ttatgggtac tttttttttt 420
 gcttctacgc ttattataat tattaagtaa ctacactctg cattattcac tactatgtct 480
 tgtggaacct tttcatcgca tttttttaag ttcatacttn taaaattctt catacctgag 540
 atgcatttgt gacgttggtc aaaatgtttt tcccttatca taaa 585

<210> 5486
 <211> 441
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5486

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 gggcaagatt ggatgaaggg aaaggtggtt ttctaaatct gcatattgtg cagatttttg 120
 ctgtgaaatt gagcagcacg attttgcaca actgcataaa aatactangc atttgctggt 180
 tgcggaaaga gcattgcaga atgagttctg gatgtttgct agtagatccc aacgggtcaat 240
 atgtatgctt atgtactaga gacttccact caaaatttgg agtcgatcca acggttaacg 300
 aattggaacg aaggaatcgt tactgggggc tttaagttag aaaagctgtg attttggttg 360
 gtgttttggc agagatttct gcctttgctc tggtttcttg gctgagatag tttgcgctgc 420
 tcgaatgttg cactactttg a 441

<210> 5487
 <211> 460
 <212> DNA
 <213> Glycine max
 <400> 5487

tgtgcgaatc aaatcactcc tgcatttcat ctctaccatg catttttctt tctttaccca 60
 ctctcacgt ttgggtttttt agggaaaaac accataacta aacgcgccac aagacatccc 120
 tatcgacca gatccaaatc tagaacgatg ggtgatcaag aggagacaca ggaacagatg 180
 aaagccgaca tgtcggctct gaaagaacaa atggcttcca tgatggaagc catgttaggg 240

atgaggcagc tcatggaaaa gaatgtggcc accgctgccg ctgtcagttc ggctgccgaa 300
gcagacccaa ctctcttagc aactgcgac catcctccct caaacatagt aggacgcgga 360
agggacacac tggggcacga tggcagccct cacctgggat acaaccgagc ggcttacct 420
tatggattgc cgcccaacta ctcaccaccc gtcttgcaag 460

<210> 5488
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5488

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tttgagtatg tagcttttaa gataatcgga attataactt tctaacttat taaaaaatga 120
ggatacttta ataaatcttt gattagaatt tataataagc aaatatTTTT taatatacat 180
atatatatat atatatatat atatgaagaa tttaattat gatataagat tctctaacta 240
ttgataattt gttttaaaga atattaagat gtaatctaca tataaagata aatatagaag 300
gtcgaaagag gtaaactatt aagtatatta aatatgtaaa taaagataaa aagagaatag 360
tttgaaatag ttgatagaaa aaatagttga ctagtttttag aaataggctg tgaaatgtat 420
gtgtgaaatg cntctccnac gatgagaaga gagagag 457

<210> 5489
<211> 464
<212> DNA
<213> Glycine max

<400> 5489

tctagccaaa tggacttacc ttgaattaat tcctttgata gccctttga gcctattttc 60
ccctttcttt gttttgaagc tcattacaag ccttaagtga aaaaaccatg ataccacctt 120
acccttaagg aattatggag ctttgggaatt gttttgggaa taagctggga ataagtgtgt 180
gtgggggggg ggggggcat ggatccctcc cactcaagtt ttggtgttat gcattgtaaa 240
tcgcaacgtg tctcatcaat cggatgcctt ctctcacact aaacgaaaag tcttcattag 300
aagtcttggt tcatcgtcca tcaaattata ggtaactaaa agcctttggg tatctttggt 360

ttccttgggt cactccatat acaactaaca aacttcagac caagtccgta ccatgtgttt 420
 ttaagttaca tcttactcaa aggcatatct tttgttatga tctt 464

<210> 5490
 <211> 472
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5490

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 gaattgccat tccttggatt ataagggtga accaagctca tgctcttaca aaaagggttca 120
 tcaagtcaag ttgaaatatg gaagtaaccg tctttcaaaa ttggggcaaaa agatgaatcg 180
 agtcacatca ctgcttcgtc tactgccaaa catatttagg attattgatg tccttggttac 240
 ttccagtttc accttgacaa agatgtcatg gaccatgttg aaaatctaaa ttgattcaac 300
 cccatatctt gcgtaaaaat gccattcctt ggattatagg gttgaaccaa gctcatgctc 360
 ttacaaaaag gttcatcaag tcaagttgaa atatggaagt aaccgtcttg caaaattggg 420
 gcaaaagatg aatcgagtca catcactgct tcgtctactg gcaaacatat tt 472

<210> 5491
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 5491

ttgagccaat tcaaacgaca ataacttttt actcggatgt ctgattgagt cccgtaatat 60
 aacgacacgc tcgaaattga atgttgaagc tctgagctaa ttcaaacgac aataactttt 120
 tactcggatg tctgattgag tcccgtcata tatcgagacg ctcgaaattg aatgttgaag 180
 ctctgagcca attcaaacga caataacttt ttactcggat gtctgattga gtcccgtcat 240
 atatcgagac gctcgaaatt gaatgttgaa gctctgagcc aattcaaacg acaataactt 300
 ttactcggga tgtctgattg agtcccgtaa tatatcgaga cgctcgaaat tgaatgttga 360
 agctctgagc caattcaaac gacaataact ttttactcgg atgtctg 407

<210> 5492
 <211> 438

<212> DNA
<213> Glycine max

<400> 5492

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agcttccact ccagttccca ttcgagtacc taacgggtgt gattttcaaa cgtaaaaaac 60
cagaatacac aataccctta agctaaccga caaacaattt ttggatgaaa ttactaacg 120
acagcctttc acgtatgcag gtaatcaatt tcggtttaaa tgtatgcaac tgaaagatga 180
tgctgatgtt aacacaatgt taatgtgtaa tcatgaattt ttgtttgttg atccgattga 240
gtttttatgt agcattgcta gaaccccaga tggcatttta aatttacttg aatctattat 300
gaaccctact catgatgcc tgctatatta caatgggagg tggaacatgt cacgcaaaaa 360
tgagtttggt ggttactcat tcgtaggaaa aaatcccaa aactttgaca ttcccactgg 420
atgtaccatg gatgaact 438
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<210> 5493
<211> 425
<212> DNA
<213> Glycine max

<400> 5493

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ttatgttttc cctcccgtgg atgtagcctt gatcaaaggt gaaccatgta aatctgtgtg 60
ttctttctct tttttcttct ctttcacctt gctgcacaat tatgtgtgta tgacatttct 120
attctgttgc atctcctgct gctgttcttg tttgttcttc atcacttcca caacaaactg 180
gtatcaagag ctcaagttgc gatcaaggga attcaagatt cttgtctgaa taaaagatc 240
aagctatggg agtcttggtt ctggttcttc cactgcttca ttgtgatcaa taacactcaa 300
gaaatcatgt gaaacacaat caggattgaa aaattcaatg gaaagaacag cttcaatctg 360
tggcgcacatc aaaagcatgc tttgttgaag gaacaacgtg tttgggctcc tgttgcgttt 420
tcac 425
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<210> 5494
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5494

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 ttttaatttt taaatgacat ttctaattta ctaaggcaat aataatataa catttctgtg 120
 gaagcaaagc taccatgatg attcaccaaa atgttttgat gatgccaaag ctcaaagagt 180
 tgtttcaaga ttaaagaatc aagcattcaa gattccactc aaagattcaa gaatcaaagt 240
 aagaaatcaa gaagcatcaa gccaaagtcaa agtaggtggt aaaaagtatt tttcaaaaaa 300
 catcaaatag cacacttttt gttttaaaaa ggattttctg aaatcttcta agttaccaga 360
 gtntttactc tc 372

<210> 5495
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 5495

ttgcagattt ggccttcgcc agtgaaagga tcaatgtggg tccgaaaaga ggcaaatttg 60
 atcatcctac taggacgact gaaaaaactg gggcaaataa agagggtgaa gatgaaggag 120
 aaacccatgc tgtgattgcc attcctgtac ggccaagttt gccaccaaac ccaacaatgt 180
 cattactcag tcaataacaa acttctctct taccaccac ccaattatcc acaaaggcca 240
 tccttaaate aaccacaaag cctgtctatc gcacttccaa tgacgaacac cacctttagc 300
 acaaacaaaa aacaccaacc aagaagtga ttttgcagcg agaaagcctg tagaattcac 360
 cccaattcca gtatcctatg ctgacttgct cccatatcta cttgataatt caatggtagc 420
 cat 423

<210> 5496
 <211> 1160
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5496

acctctcttc ccantttgta ctncatactc tctcttacct ctgttctca nttacttcc 60
 tcttnacaac tatttcattn ccccaccoga cgggagaatg attacttgat ttcccttgga 120
 ccccccata gactcgaagc atgcccgcct cgaatttttg ttgagaacaa ccattcgatg 180
 ctattttatt actgcacatt gtaaagacat ctgatctctt gtcttagaat gcggattgaa 240

<210> 5498
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 5498

catgcaagct tggттааgaa gattcctaaa aaagttagag cttaaactaca cacacctctc 60
 taatagctaa gctcaccttc ttgagatgag aagctagagc ttagctacac acccctataa 120
 taactaagct cacccttatg ccagaaaaaa catgaaaata caaaaaaagt ccttactaca 180
 aagactactc aaaaggcccc gaaatacaag gctaaaacct tatactacta taatggccaa 240
 aatacaaggc ctaaacgaag aaaaaaccta ttctaattatt tacaagata agcgggctca 300
 tacttagccc atgggctcga aatctaccct aaggctcatg ataaccctaa ggcctttcct 360
 tggattatct ggccc 375

<210> 5499
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 5499

ttctaaagtt ttctggtttc caaaccttga aaacaaaagt gtgctatatac ttttcattct 60
 cttctgcctt tgccaaaaag aattcgccaa ggactaatcg cctaaattct ttttgtgtct 120
 atcttctacc ttctgcaaaa gaacaaagga ctaaccgcct gagatatctt ttgtttcccc 180
 ttcacaaagt ttcaatggac taaccgcctg agaactttgt cttaacacat tggagggtac 240
 atcctttgtg gtacaagttg aggggtacatc tactcgggtt gttatgactg agaacacaag 300
 aggggtgcac tcttgtggat caattcaagt gaagggtaca tccacttggg tgttcaaaga 360
 gaacaaggga cggtacattc cttgtggatc ttgt 394

<210> 5500
 <211> 308
 <212> DNA
 <213> Glycine max

<400> 5500

aactcgaggc gagcggcagg catgcaagct ttttgttgcc attgaaaaat ctaaaccgga 60
 gctatgatca actttaattt atggctgatt caagaccgac tatctgacct atcacttgcct 120

gggacgatcc ctaatcctac ggatgatttt tacgaccaca taaaaggagg ttgtcgtatt 180
 atacctcctg atttcagacg caacggatgt tgccacaaag acaacagtga tatttttttt 240
 attgcgataa agacaccaat gattttttatg gacattttca aagaaaccca tgtggcatcc 300
 ttaatata 308

<210> 5501
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 5501

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 tgtcatcggt tttttcgtca ttgaggtgcc acttgagctg ccaagttctc cacctttggg 120
 cgtattcttt gaaagatccg tgcccccttt tttgcacata tttttagatt gcatoctatc 180
 cgaagccatt ataccgacac tgcctaacga aggcaaccat taggtcctcc caggaataaa 240
 ctcgggaagg ttccaagtta gtgtatcagg taacaactac ccagtaaga ctttcttgga 300
 aggaatgtat caacaattcc tcattctttg cgtatgcccc catctttcga caatacatct 360
 ttagatgggt cttggggcaa gtaatccct tgtact 396

<210> 5502
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 5502

agcttgctta agaagattcc taaagaagct agagcttagc tacacatacc tctctaatag 60
 ctaagctcac ctcttgaga tgagaagcta gagcttagct acacaccccc tataatagct 120
 aagctcacc ccatgacgaa aaacatgaaa ataacaaaga aaagtcctta ttacaaagac 180
 aactcaaat tccccgaaat acaaggctaa aacctatac tactagaatg gccaaaatac 240
 atggcctaga cgaaggaaaa acctattcta atatttacia agataagcgg gctcatactt 300
 agcccatggg ctcgaaatct accctaaggc tcatgagaac cctagggcct ttccttggtat 360
 ctctagccaa tctaattgga gtc 383

<210> 5503
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 5503

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 tgtgagtggc ccagcccgt cagcgatctg ggatctagct ccgagttcat gagcctagca 120
 cgatgctaga tctcagcact cgagatcaag atttcagact ccagattgcc gaatgaagaa 180
 cagactcact catgataacg cctaactttt ttctcccaac attgaatacc acatgagttt 240
 ctgacgaaat ctttaccat gagctttttac tctctactaa tcgatcacca tactggtgta 300
 gtgggctacc cggaacgaga tgacgcttga aaaagttttc aaactgaatt tacaatgctc 360
 cactcatttt c 371

<210> 5504
 <211> 467
 <212> DNA
 <213> Glycine max

<400> 5504

agcttttatac aattaattaa gatcaatggc caatatacaa ttaattaatt acatatatac 60
 ttatatagtg ggagaatagt gtctatcaga gttttaattt tttgtactgt ttttaattaca 120
 aagacttcat ttattttttt ttaaaaaaaaaa gttgattcat ggattattttt aaaattcaaa 180
 agtaaagat ttccactcat aataccaagg aataatagta aatgaaggaa atattttattc 240
 tctattttcta taattaactt tagaaaaaat ttattaatta aactagctat acctgttatt 300
 attgttttga cccctttttt ttgatagact agttttctttt ttgtgtgtca gcaaaatcaa 360
 agatatatta agcaaggtag cagagatgta ccaagataga atacaagttt aagtccatcc 420
 ctggttactc tatatttatc acatataata aatataaatt aatcaat 467

<210> 5505
 <211> 510
 <212> DNA
 <213> Glycine max

<400> 5505

tgtgcggtga actaacctcc tttacatgg aattgtggtg caattgtgat ttgatacaaa 60

ttgattttaac taagaagggc agggaaaaata agggaaagat catatttgat gtggacatcc 120
ccacagatag tgttttcaga ttatagctta cacagaatgt tagcataaat atagttcaaa 180
tggctgaaat attttacttc ttagaattca ttcattatat tattactaat ttaaggatcc 240
tggtgacaaa tatgattggt ttaaagaca tcaaaagtgg atgaattga ggtgtaaacc 300
tatattgtat gtttgacttg aaattggtga gaacgacaag aggggtcatg tgataaatta 360
ttggcttttc aactattgat agattagttt tgcgaattcc tgcataagta gattattata 420
ttgacgtggt gatttggtta gcagacattt gtcattggaac ctgcatttct tccttcactt 480
attattgata tattttaaag agtttgaaa 510

<210> 5506
<211> 490
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 5506

atttcgttca ttttcgaatt cttttcttcc gtctttaacg cgcttttacc gtttatttaa 60
gccgttttct cacctaataa atgataaaat gaatttcaac cgatcatttg tgttgtaacc 120
tcatttaacc actcttaaaa tgaaatctaa ccgatcggtc acgctataac ctcggttaaa 180
caaaaaaagt aaaataataa taaaataacc aaaatatctt gaaaaataat aataaaataa 240
acaaaatacc tttgaataaa ataaaacaaa aaaatcaacc ggacgttttt tctttggaag 300
tttcttgaa tgaattgatt aataaccaa gtgaaactaa gactaaaata gactcacaaa 360
tcaagttttg tccgaaaacc actaaaaacc gttttaaggt ccaacgcctt anacggtcct 420
ctttgctttt atcggttaac atggaccgtt caaaagcata aaatcaacat gtaactttac 480
cgcttttgaa 490

<210> 5507
<211> 381
<212> DNA
<213> Glycine max
<400> 5507

tggttaaagaa cttcgaaaaa atcaagaaca agcttggttc cacatcggtc gcgtgtatga 60

catccactcc acaaagtttg aaattgaaga gaccttcaat cctattacac aacgtggccg 120
 acaaaagtgg gcagtttaact tgaatgggtca ttattgtcaa tgcagaaggt attctgcgct 180
 tcactatcca tgttcacata ttattgcagc tttgggttac gtgagcctga actactacca 240
 atatatagat gttgtttata caaatgagca catcgtaaaa gcttactccg cacaatgggtg 300
 gcctcttggg aatgaagcga ctattcctcc ttctaatacgc gcacggacac ttatccctga 360
 cccaacagca attcgtgcga a 381

<210> 5508
 <211> 582
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5508

cttggatctt cttcatcaat ggagtcctat gcttcttgaa ttttaatcac aggggaatgg 60
 aaaagaagaa gagttgagag gagacaccac ttcaaggaga agatgagtca agaagaagct 120
 caccaccata gaaagccatg gataagagct tgaaggtaga agaagatgaa tggaggggaga 180
 gggagagaag gagcacgaaa ttttatgcct caaaagaggt ctgaactttg aagtttaatt 240
 ctcaaagatg caaagttgaa aaaattcaca cacatggcct ctatttatag cctaagtgtc 300
 acacaaaatt ggaggggaaat ttgaatttct attcaaattt cacttgaatt tgaaattgaa 360
 tttgtgaagc caaatttttg agccaaaatt tcactaatta tgattagtga attttagcta 420
 tggttcagcc cactaatcca agatcaagtc caagattctc cactaagtgt gcttaggtgt 480
 catgaggcat gntaagcatg aaagacatgc acaaagtgtg actatatgat gtggcaatgg 540
 ggtgtagcaa gcaaatgctc acctccccctc tcaaatttaa tt 582

<210> 5509
 <211> 485
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5509

tgatggtacg ctaagcctca catctcaggc taagtgcata ttgcagaaaa gtttgcgttg 60
 cagaaagtgc taagcacagc ttattgtgct aagccccaga tgctcactgg actttacaac 120

ttcaagttgg gcttagcgcg aggttaggct aagcacttgg gtttttaaac tcaaacgtca 180
catgggcacg ctaagcacag ctgtgcacta agcgcgccat acaaatttca atttttatta 240
aaaccaaagg ctaaggcact tgggtgttac cccaaatacc tttagcttct ccctttgtta 300
accttgagca agtgtgtatt tctgctgctg gtgtgtactg cttgtcagca tcttctttgg 360
ttcatttcaa tcacaatcca agtaagtggg tacatttcca ttnttatttt tcatccttca 420
aaccttagga taaatgactt ctccgtttct tagttgtatg ttggttaagt aagtttttta 480
gtttt 485

<210> 5510
<211> 925
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 5510

aaagtagagc aacacacaca aataaatccc atactgagcg aaatataaca acactcatcc 60
caaaanncag cccgganttt gatcatgata gcaancngn anaataaacc aaccgaggat 120
gcaacatnca acataagtga tgatgattta ttgaaaccaa aaaccacatg cgaggggagg 180
ggagtaatac cattaatata aggatccttt attatggata ggaaattaaa acggaaaatt 240
gattgaagtg gtgggaaaaa ataactcaga aggacacca agaaaaggcc ctatctaaag 300
gacaatctac cttataaaaa caacggcaat aatagggtaa atacgcctaa acgaaaaaag 360
gaaaactgtt ggtttgaac aaaatgcaa aaacaagggtg gggcgaattg taacacaaag 420
gtaaaggggg gttaaaaacc ctaaaacaat gggggtaatc aaaaataaat ccaaactcaa 480
aataacatcc acaatgggga tatactatgg cctaaccacg cacaacgggg aattaacaat 540
ggcaaaacct acaacaagaa gatataaagg gcgcacagaa ataaaaaaaa ccaatagaaa 600
tagcgaaaaa aaaacagagc gcattaaata ggattgtacc aaaccaactg ataataatac 660
cacttataaa atagataaac aaacattaat atgtaaaaaa tacaccggaa cacaacact 720
gcttaaaaaa gagagtttaa aattagaaag ggtggtaaca tcgagacaca ccgccttaaa 780
agtgcgaaaa aagaaaaaga agtgggctac tctgaggaca tataaggga gggactagaa 840
caaagtgtat atagcggaat atcatcttga caaaagcgtg gacacaccac aagacgacac 900
atcttcgaat aatagggaga tgacg 925

<210> 5511
 <211> 311
 <212> DNA
 <213> Glycine max

<400> 5511

agcttctgaa ggaaactgcc tagtctataa atagaagcat gtgtgacact tgttgggact 60
 ttgatgaatg aaagtcttat gagacacact tcaaagcttc acttctctcc ctctttaaat 120
 ccttcaattt catgctcctc cattgtctct ttcttttact ccattgaagc atcctctgca 180
 agtcacattc ttgggggtga agctacttct tcgatggctt attcccttgt ggacggggcc 240
 ttttctcacc tattattctt tggttttcgc tgcattctca tggcggaata ttaccgttga 300
 aagacctgat t 311

<210> 5512
 <211> 497
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5512

tctaggtcaa tttattagca tgcaaaaata taagctaaag caagaaaagg gatgtgcttt 60
 cgcgctagtt gctcatccgt agcttggctt ttacgcatgc taaaaaagct attctttggg 120
 acgtagaaag gaaatatacct aattcagtag agaacgtagc tgggtgcacaa gacaaaggag 180
 gacaggaggg gttcggggga ggagctctcg gcacatagtc agtcggcatg gtctttcatg 240
 acccatangc tttgggcttc gatggctgct tgaaagacac atattgggaa gttggctatg 300
 gtccgctcgt cattgtgcag acgactgatg gcttacattg ccaagagggc attgtgagac 360
 aaaggaaagg gctgaaaagg atggtgcca ggatctcact attacctatg catgtgccag 420
 aatgcgatac cgtaaaggtc gatgtgtcat tgcgacactt accatgtata ccgggctaga 480
 gtgttgttcc accgaaa 497

<210> 5513
 <211> 470
 <212> DNA
 <213> Glycine max

<400> 5513

agcttgggac attcttgcaa atacctatgc tagttctgat aagttgaaaa gagtcaagat 60
gcatactttg aagcagcaat tcgagctatt acagacgaat gagaaggaag gtatagccga 120
atacctaaat cgtgtgcaaa atctgtcgaa tcaagtgatg gcttgtggtg aaaccttgaa 180
cgatcaagat cttgtagaaa aggttttaag aaccttaagt tcaagatttg attatgtggt 240
tgctgcaata gaagaatcta aggattttgc ataaatgaaa ttggatgagc ttcaatgctc 300
tcttgaagca cacaagctaa gaataaaaga gagggaaaca gatagggtcat ctgaacaggc 360
tttacttgct cagagtggaa aaatattcca caatggctca cgcagtagta aagggaaggc 420
taaaccctaaa taccctaaat tgaaaaaaca agagatgatg gtactgttga 470

<210> 5514

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5514

tgcaaaccac atgctcacca ctattagagg agaaatcttt aagttgtttc atataaacct 60
cctcctctaa atcaccatta agaaaagttg ttttcacatc catctgttgc aactcaaggt 120
caaaatgaga aactaatgcc aagataatac gaagagaatc tttcttagat actggagaaa 180
atgtctttgt gtaatctatt ccttcctttt gagtaaacc ctcaacaaca agtcttgcct 240
tgtatctctc aatgttgcct aatgaatccc ttttggctct aaatacccat ttacatctaa 300
tggcctttgc ccattangc atctttacaa gggtccaaac tttgttactc tgcatggaat 360
tcattctatc cttcatggca tcataccata aatttgactc tttacaactc gtggcttgat 420
ccaaag 426

<210> 5515

<211> 115

<212> DNA

<213> Glycine max

<400> 5515

aacactgcct gatgcatcga ccaacaagtt tgcacctttg ataccctaa agaaccatat 60
acaacaatgg taatcacgtt ttattaacta aaaagcaaaa aggggggggg ggggg 115

<210> 5516
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 5516

tcgacacatg agggaagata ttgaatcagt gaggcttgt agagttcaag tttggagcat 60
 aatttgcttt gcaatttact ttgtggtatt tatagcagt tttactggaa ccctagttca 120
 ttaagtttat tttttagttc attggctaaa gcaaagtact gcatttgcac tagtcttttt 180
 ttaatagtcc aacttctgtt tttctttttc tcctgttat ggcattgtaa ctcaaaacag 240
 ttattttatt gttatgttat attaatagct tatattatct atttatttat tttcttttcc 300
 taaatcaata caaagagtga tgtgaaaatg aaagagataa gtacaatgag aagctggctt 360
 ctatttggtg cacaactagt ggtctttttt ctgggggttt ctcttataaa cacgctgaga 420
 gactgggtag ctttgc 436

<210> 5517
 <211> 339
 <212> DNA
 <213> Glycine max

<400> 5517

agcttctcac tttttttttc atttgaattt attgacagcc aaaagccaca tgcattgtga 60
 gtggagtcac ccattagtc caagggtcct ttttaattga taggatatta aacggtaaaa 120
 tttgattgaa attgttgga aatactagct ttagttggac gtccaagtaa aggccttttt 180
 aatggttaat ttgcttttaa aaataatgcc tataattggc taaagtatgc ttaagcataa 240
 atggaaattt tgtttttacc aaatgaaata aatttgagct aattaacata agtaatggtg 300
 ttaattacct aaatcattgt gtaattaaat taatccaac 339

<210> 5518
 <211> 473
 <212> DNA
 <213> Glycine max

<400> 5518

tgcttgtgga gcttctatgg aggtggatc tttgagcttc aatgaggtcc tttaatggtg 60

catagttaaa aaagacattg ttgattaata taacattcta atcgtgtgat cttcatataa 360
 tgaaatcata aggaaactag tgatgatgcc caatcttaag aagaccttgc acatcatgaa 420
 tgagattgga atagtgattg ggggtgagaat cttcatggaa acgatcctat gttgagaatt 480
 gtacagccac cttgaaaaca cagagctgt ttttaattctt aaccgcccta caaaataaca 540
 cctttgcttt gtgtccaccc ggacgacaaa accacaaaaa aacccttcca cctatttggg 600
 atagaatgaa caaacaagca cgaaatcgaa aaaaaaaaaa tttgtaggaa agggaggtgg 660
 tgaaaaaaat gggaaaatat ctgggggggg ggggcaccac tctctctcat acctctctc 720
 cctctctctc atgtacatta ttcaccattt ctactcccc ncgtcccgt acattctctc 780
 acaccatata actcacattc cataccaaca acaacaaat ttcttacccc caccaacaca 840
 acacaagcta cacacactac acccataccg actacagcca 880

<210> 5521
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 5521
 agcttttgat actaacaagt gtatgtatac cttaatttct cttaacaaca accatattgc 60
 ttattgtagg catggactta aacaatatcg taatggttgg gcggatggac caacttatat 120
 tacacagtgc ccaatacaga caggaggcag ttatacttat gatttcaatg ttactgagca 180
 gagaagaaca ctatggtggc atgcacacat tctttggctg aaggccactg tgtatggtgc 240
 aataataatt atgcctaaag ctggaacacc atttctttc ccacagccag ctagagaatt 300
 tgaaattctc ctacgtcaga ttgaatttca agcgtataat cttaatattg gaaggataaa 360
 agggttaagaa atatgctata agtaattttt tgtgcatgca atacgtgaat ggtggaac 418

<210> 5522
 <211> 313
 <212> DNA
 <213> Glycine max

<400> 5522
 aacgccattt tactccctct gttgatcata cattacaaag agaaattatg cttgatgtca 60
 cgagtcagct cgattccgct acaataccaa agttcacacc atgtacatac tggaaaatta 120

tactgaccca tgttccaatg tacaattatg agaattaatt ctgactatca tcttggacac 180
 ataaactact tgggaattac cactccctag caggacagaa tactagtaca ttgagctatg 240
 tgcacccctg cgaacatgc caaacctgca aatcactgat acatgccctc tgtaactcct 300
 tctcgaggaa ttt 313

<210> 5523
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 5523

agcttcatat ttgtatgtca gttggcatta aaaaatttat ttgactaaca ttttgatata 60
 aatcattatc gaataacaaa atttcacatt ggttctggtc ttttgtgaag tagattcttc 120
 taatttctga aatttttttc ttttgggaaa aggggtggaaa ctaaggagct taagaaaagt 180
 taattcctaa tagccaacag ttcattggcta ggaattggga aacctgctgg gcgttaggct 240
 gatttaatgt gtttgggtta agccgtatca aattccaatg cacgttgaat gcaatttcac 300
 tcaaaagaag ctttggcggt caacgtgcta aacgtcaata caagcagtct tactttctgc 360
 aattcaacat actgtcttac tgctgcctcc tcaat 395

<210> 5524
 <211> 240
 <212> DNA
 <213> Glycine max

<400> 5524

tccttgagaa gtaaggaagg tagcttcctt gggaagttag aggggggcta ttcacacccc 60
 tccaatagct aagctctccc tcatgccaaa atacatgaaa atacaatggg aaacttcctt 120
 gagaagcaag gaaagtaact tccttgggaa gcaaggaaga aaacttcctt gagaagctag 180
 agaggggggg gggggccctt tgaacgggtt ttggctttac tactgtcata cgttattttc 240

<210> 5525
 <211> 490
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5525

agcttatttta tttgattaat gaatcatatt gattattaat taatgcttta tttgtttttt 60
 taataagcaa aagtgatgat atatattata caciaagggt aagcaaccta tttacaagta 120
 ttgaaaactg aaaatactat ctccatacct tggttacaaa atattaacat aacaacaata 180
 taaatattaa gtaaccaagg aatccaaaaa gagaaagttc acctccctgc aagtcactgt 240
 aatactacta gtgacaatcc tacccaatca ccaaaaaaac ataaataatg ccttaccctc 300
 ccacatgttg ttcccaaaaat attaatgctt tatttgttgt tgatgtatgc aatgcaaggc 360
 aattgtgaat cccaatgaat gaatgatttc atgaatgaga gcaagctgaa tgatcctctg 420
 aacagctctg attatgtccc aacctatgag gacaangatg gtgactggat gcttgccgcg 480
 aatgccccatg 490

<210> 5526
 <211> 941
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5526

aactgtccag gagtttgta taactctcac taacatttac ctctattcat cgctctccac 60
 acgccaccta anacctcccc cctnctcntg ctaccgcncn ctttgattgc ctgccattac 120
 gagacactat acaatactca agcctcatga agatgatccc cgatgaaaca cgcagctttg 180
 atgattataa aaagcccgat aaaatgaatt caggattcag gcattgcagc tacgactcgg 240
 attaacttta tgcgtcttgc aaaaaggatc cccaaggtag tagccccgag aatagtgtgg 300
 tctctcgaat cacgagaaag tgactttctc attgttgtaa aaaaacttag aatacatctc 360
 ccggcagtag tgtaatcatc tcttaaaaaa cacacatata acaaagggtg tttttcaaaa 420
 tagatatact caaaattctc caagtcaccg ggagggtgta ttatcttggg gttgataatc 480
 aacattccag aaattgattt cctgtggcct cgttctgcct tcgaaaaact ttaaccgcat 540
 gtgcaaagct ccaaaccagt tctaaaaggg tgcacctctg tccgggattc cggaatcgac 600
 taaccaagca tgatagaatt ttcactctac ttcgggaaag cacatctctt cctaaaaatg 660
 gccagggaaa ctaataacat tttatgggaa tgcgatgtcg ttcgacacat acggcaaaat 720
 aattggggag gagggagggtc ctacccccgg cctacccac ctatatcttc tcggaaaaaa 780

ccatctctaa tgggcttctc tctcccttt acattctttc ttatacacct acacccccca 840
 tccgctatcc aataccactt tgcacccac gctcttgatt actctacgac acactttcat 900
 caatcacatg aaaccatcac ggtgtcctct ccgtcttatc t 941

<210> 5527
 <211> 382
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5527

ggtaattgat canactcttc caatntatgg ntattttgta gtgttataag tattttctgt 60
 taagtataga taataaatac ttagtacttc cattntgtgt gtttaataat cattttctct 120
 caatttcagg ttaattaggc aagctttgaa aagtgttggt ttccaccttc tgcctaagcc 180
 aatctgctgg cttagcgagc atccgctaag cgcaacactc atggnggcta agcgcaagga 240
 agactcttct aattaagaag ggggggtgaa ttaattattc ctaaaccctt actaattaaa 300
 aatttactct tctatggctt ttactatngt tgtaagtaaa tgaagaatag aacataaact 360
 taacccaaaag taaaagcgga at 382

<210> 5528
 <211> 275
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5528

gctccttctt ccattggctta ttccttagtg gatggcgctt cctctcacct attctccttt 60
 gtcttccact gcattccat ggtggaaaat caccattgaa gctcaaagat ccagcctcca 120
 tagaagcccc acaagcaagc ttccatcang ttattaaagc tatcctgagg actttcgaac 180
 tcgcaccagg tctcanaatt aactttgcaa aaagcagttt tggagcaata agagtgcctg 240
 atcagtggaa gcaacttgca gccattact tgaat 275

<210> 5529
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 5529

tcttttctct ctttttctct caattgttct tcattcttct ccctcttttc acttatgttc 60
ttcctttntt cttgcacaaa ttntgtggct cttctactgg tgatgatcat ggaaggctaa 120
acacaatcaa tccaatgata cactccaagc aaggctgaat ttaagttcta gtttagtatt 180
tcaattttgt gtgaatgttt atctttttct tcaatcctat ntccaatttt catgattatg 240
aataggctta ngattgaaaa ctaattangt tatggattca tttcctaatt tcaaaattta 300
atcacaagtt ngttggatga cattccaact aatttgtgat ctcaaagaat ttanggantt 360
aattcgatga actaactcta atgacattga ttgaactttc ataacataat ca 412

<210> 5530
<211> 342
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5530

tattattaaa gatgtttgat atttgatatt aatgaaccac tggataagtg gcacagtcag 60
ttatttatca tttctgttta tagtgcgttg tcaagttggt catattgtgc atgttactta 120
ttctgcctaa cacttctact actgcatatt catagtttct agcttatttt cttgaaggat 180
ttcaatgaag ttgtggtctt gcaactttta ttcacagctt gcaaagtctc tatcaattga 240
aggggactac caggggtcaa tctctgcctt anagtgtgga tatgtctgtg ctactgaagt 300
atgcttcccg gagttgcagg tatgttgta taggttacia at 342

<210> 5531
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5531

tgttgagcca ctagaaanat gtgaagcaag attaagagat aatgactgat taaaccataa 60
tgcagaatac ggctgcagta gaatctgcaa taaaagaatt gtgatgaaca cttctgggtg 120
tgtacctctt gcttcagact atgttgaaca tcattttgtag gggtttgttt tttcctaggt 180
ttaccgcatt ccgtgaggta ccctgtttcc tggaaccaga tcaaaaccat acataggtga 240

gaaaatcttt cttctaaata attgtctaga agtaacttat ttgacctgtg gactacagag 300
aaagatacaa ttatattaaa ttagaccatt attattacaa tattaattat gtcaaacata 360
tatgctttcc ataaaatcaa ttctctgttc atccatccca ttacat 406

<210> 5532
<211> 363
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 5532

ctaagcttaa gaattatggc ctcacaaac tacttgtttc ccgagggaaa ttctataaat 60
agacctccca tctttaatgg agtgggttac cactactgga aaacccgcat gcaaactctt 120
atagaggcaa tagatttaaa tatctgggaa gccatagaac aaggacctta tgttccctct 180
atagtggccg gaagtgaac aatagaaaaa cctagagcag attggactga tgaagaaaga 240
agattatttc aatataattt aaaggccaaa aatattatta catctgccct aggaatagat 300
gaatacttta aggtttcaaa tngtaaagtg ctaggatatg tgggatcact acagtaacac 360
atg 363

<210> 5533
<211> 402
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 5533

tccatcagtg cataacgtga cttcaaaagt atttgctntt ccctttntat attnttatan 60
ttttttgggt tcgacaaggg ttgatgcaat cctacccgc aagggcattg gatagaagac 120
tccaagacaa ttgagccaga gatgcaagag aaggccctag agttctcatg agccttangg 180
tagatttcgg gctcatgggc taagtatgag ccacttata ttagtacata ttagattaag 240
gtttcattat ttttgggcct tgtatttagg gctcaataat gtaggtaagg taccctagaa 300
atgtatgatt tttcagccct tgtattttag ggcacctaga ctagttnttg tattanggg 360
agttttgtaa tttcacatgc attaagtga ttttgatgt gt 402

<210> 5534
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 5534

ggaccttcaa actcagcggt caatgcagca gcttctaacg agggatgtat tcatattgga 60
 gaatacagag aggcaggtat aatgacgaac agaaatggat aatagagtac tctgggtgaag 120
 aacaggagct ttccctcctt ttagcttggt tcacaacaaa gggtagaacc ttaatatacct 180
 tatcggttac ttgcgccccg tcttttaatt tatgcattgc tgaaatgaat gctcgtgcat 240
 aaatatatct gcatgatgaa aatgtctgtt cctagcttgt tgtttttatt ataatttgat 300
 acccagatat atacaagatc aatttgcacc caaatatata agattttaat ttatctcatg 360
 ttt 363

<210> 5535
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5535

tcaggaaaat gggagtacta gcctaggctt tggctcttag aaaaacaaca cttattgtag 60
 gtgaaatgct tggaccaatg gaaatgcaag gcttaatcct tatcttctta atctaagcac 120
 tttgaatgac cattaatatg actaatcggt agcttggaca gccattgatg tgctctccac 180
 aagctcagcc atgccttata tgacttcttg caatttttca aaactaacta taaaaggata 240
 aagtagagtt ttaccaaana tggtaaaaaa tgcttttgct aaaattggta aatcttatcc 300
 taatattcta gaatagtgtg ttaacctccc ttgagacatg tatactcaga gtgaaccttg 360
 cacagagtcc actcacactc atacagagac aaaatatact 400

<210> 5536
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5536

tctttctctg ctatcattga tacgtgtaag tcccacaagt ttgatttaca tttgcaagct 60

gtctgtcttg tgcttgaaag ataaagatct tgggtgacaga gcattcacga ataacgaaat 120
 ctgggataca accagaaatt tgttactttt ttaatttatt attgtttaaa taaggctaaa 180
 atatatTTTT ttattcttaa taaatattca caatttatgt tgatttctga gcatgtcacc 240
 actgaataaa tggaggagaa acatcatctc catttgttgt tctattcatt tcttccattt 300
 ctatggntnt gaaaaaataa atgggtactct tcaattaatg agttacatgt cgtccattac 360
 atttatctat ccaaaactnt agtaatgaga agagtgaaga gaanaataat tggagaggat 420
 aagtagcttt ctgtccagac tgaattatgt gttttttaat taat 464

<210> 5537
 <211> 307
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5537

tctttggacc tcgaacaagc aattaactcc tctttcagaa ccatgctatg tgctcgcgac 60
 tgggtctcttt cttcccttcg caacttgagt tcaactattgc taccatag agctccgcga 120
 aatttgtttc ggccatactc ttccttgcca gccctcttgg tctcttggtc aagggtcttt 180
 gcggtaattg cattctcttc ccgtaaccgc gcacactcct tccgaacgtg tgtagcggcc 240
 aacttgaact tctccttggc aagttttgcc tttcctaact cgcttttgag agctnnggact 300
 tcttcgt 307

<210> 5538
 <211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5538

tctagccaaa tggacttacc ttgaattaat tcctttgata tgccctttga gccttgtttc 60
 cctttccttg ttttgaatct ctctacaagc cttaaataaa aaaccatgat atcaccatat 120
 ccttaaggaa ttttggagct ttggaattgt tttgggaata agtgtggggg gtttttgttt 180
 cattggataa cttgttttgt tggctatgct tcatgatgta ttttgggcca tacttgatgt 240
 acattgtata ttggttaaat gttggacatg ctgaatgaaa tgttgtttct canaggctat 300

agagtaaaaa aaaaaaatat tcgaaaaaag aaaaagaaaa gcaataaagt tgagtgaata 360
 agatcttaaa tggcacaaga atgatgaaac tcttggttct actctttgat gttaaatnta 420
 tctttacttc tttttatttc ttaatttttc taatatgcac ttattccc 468

<210> 5539
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 5539

gattcactaa tcattaacca gttttgaaaa aatgtgtata cacctaaagg gtgaatgctg 60
 tgaaaatttt cccgaacgcc caaaatagac tcggatgaat gcatgaattg ataaaagaat 120
 atgctttgga aacactgggt tgacttaaata agggaaaatg aatcttgagc cctagtgtca 180
 catgaccata aaaacttgat gcttgagtgt ccacatgggt gcatgcatga tcagttttgc 240
 ataaaatttc ctaattatca ttattgcatg tgtgtcatgg aaataatgtg ggacatcccc 300
 tttatccctg aaccgctggt caaaccaacg ctctgacata tatcatgtcc atccgttcta 360
 caagccttga gccaaag 377

<210> 5540
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5540

cacttctgta gggtttcagg gctttccatc agctctgttt aatctgccat atactcagcc 60
 ggtattagga ctcagagct ttctcatatt cagcagctta ttggatttag cttgngtgac 120
 ttccctttca gatacttggg tgttccccctt ttatcatcta gattaaatgt atgtcattat 180
 gctcccttac tttccaagat tactggcctg attcagggat ggagcaaaaa gtatttatct 240
 tatgcaggta agttagagtt gatcagagcg cgtattcaac gaattgtgac attttggatg 300
 gggatttttc ctttgccgca atctgttctg gaccggatca acgctntgtg ccgtaattnt 360
 ctgtgngnga aagcggatat tggaaaaaca agcccttggt tgcttggtca gtagtttgtt 420
 ct 422

<210> 5541
 <211> 346
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5541

agaaaataga cgaagaaaca tgccgganac acattggcag cagatggaaa atgactgaga 60
 aacattcaaa gacaattgga atatgttgaa ccattaagaa gaagccacaa cacaatgctt 120
 aaccacttaa cagaagcaaa cacacttaac cacctaaaag gtagaagcaa accanagctt 180
 aaccatcaag agcagaagct aaacatggtg tttaaccact caagacagaa ggaaaacaca 240
 atttttgaat gcttaaccac tataaaggca gaagcaacac aacaatgttt aaccatccat 300
 ggtagaagct ngacatcaat gcttaaccac catggacaga aactta 346

<210> 5542
 <211> 172
 <212> DNA
 <213> Glycine max

<400> 5542

tactcatttg caagctacgg cttatatgga ccagacaggg ctatcaactc tagttacaat 60
 gcggtattct accacaaata aatgctgagt gaatgcctct tgtgataggt gtcactatga 120
 gacatcttgc ttccacctgc ctatcataga gatgatcatc actctggatt at 172

<210> 5543
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5543

tacttctact gaagctgagt ttctaccctc ctctgttct gacatataat ctctagtgca 60
 gctgaaggat gttctagggg tctcgatcat tccgattcag tctttgatcc ttattgatct 120
 ttgtcttcgg ggtatctctc attaaataaa tatcaatgaa caatatgacg gattatctgc 180
 gtttcctttt tctggctctc gagacaagat aatgattttc attggctctca ttattcagta 240
 tttggatttg tacatcttta ttggttatta tctattcatt cattatattg gtgaacttaa 300

agtttttcta cataacaata tttgatgcac aaatanaata aaatgattag aacttaaggt 360
 attaattaat aattattatc tcattta 387

<210> 5544
 <211> 579
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5544

cccctggcga acactctgaa cactaaccga ccgcgaccgc tactgccacn cccagccnnn 60
 ncnnngnnnaa tgagcccttg acccctcgat tcccggacca ccaaacnaag ctggcaagat 120
 aggagaccac agcattttca cgccttttac cgagggccac acagagacac acgacctntg 180
 tgagacactc ctaccacaca gacaataaag accatagcga aacaccataa gagagacgta 240
 gtgccagaac ataggaatca cattcagcag gaacaaatga ttgggacaat accaacatta 300
 aaaaccatgg tgacatagca aaaaccacgc gcagcanaaa tgcataaacc caaacagggg 360
 aagaacaaga caattgcaga cattagcaaa accttgtggg ctatgaaacc agggcataca 420
 ggagcaatcc cgcaaaaaac gtgacgaaat agaaactgct ataaagagga aatagcacca 480
 cgccccgaag ccacaaaaca gaaagggacc agaccaaacc tggccaaccg cgaacaaacg 540
 aatcaccac gtctaagggt taccacatg aacggcaan 579

<210> 5545
 <211> 353
 <212> DNA
 <213> Glycine max

<400> 5545

gactcctcta gaagatgcat tgctcactaa gtatattcaa actcatggag aaggccagtg 60
 gagatcacta ccaataagag ccggtataa taatatacta tattagcttg ctgcccattc 120
 atttcttacc ctagccagct acctctctat atatgatacc tctctttgat caccttttca 180
 tgtttaatcc ggcttcctaa tcttctgac tcattattggg gtcgtgatta gatctatttt 240
 tggcgacact agtcctcatt tgtgtgccct tcgttataat catagctata tattattcat 300
 agagtaacat gtcatatctc ttctttctct ctctttctgc ttatattttt tgt 353

<210> 5546
 <211> 370
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 5546

 gaagcttctc aaggaagcta cctatgctat aaatagaagc atgtgtaaca cttgggtgtaa 60
 cntngatgaa tgagagtctt gtgagacaca ttcanagtt caacttctct ctctcttttc 120
 ctcttcaat tttatgctcc cctccctct ctctctcttt ctttctctcc attgaagctt 180
 cctctctaag cttntatcc aaggcactct cttagtgggtg aagcttcttc ttccatggct 240
 tatttcctag tggatggcgc ctctctcac ctttctcct ttatcttccg ctgcatctcc 300
 atgggtgggaa aatagcatng aaggacctca ttgaagctca nagatccaac ctccatagaa 360
 gcttcacaag 370

<210> 5547
 <211> 121
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 5547

 taggcacgta aacttcanat gatcaaactt cttgtgccat atccatgaat cactaaccac 60
 ttgcacatat taacattgat tatcagcagt attaattga atatgagagg tcctattttg 120
 t 121

<210> 5548
 <211> 294
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 5548

 tatagctgag gttggccaag caggaacata gttcanacct tcaaaactta ccatgacatc 60
 tttgtgcana actgttgatt tgttaactaa taataatcat ttaggtctca ccaagtaaga 120
 tgcccatatc tcattagctg gaggaggagg ctgaacccaa tgccttggtg tgcggctgga 180
 tgaagttgca aggaacaaca atcaataag ataaaatgct ttattttcat tnttcacact 240

tcataanaga cattagaaaa accaatacag ttgcagataa gccacataac agcg 294

<210> 5549
<211> 378
<212> DNA
<213> Glycine max

<400> 5549

accctgatga ggatgtccca tatgttctta taactggact gattcatttg cttccaaagt 60
ttcatggcct tgtaggtgaa gacccgcaca aacatttgaa agaatttcac attgtctgct 120
ccaccatgaa acccccagat gtccaagagg atcacatatt tctgaaggct tttcctcact 180
cattataggg agtggcaaac gactggctgt attaccttgc tccaagggtcc atcacgagct 240
gggatgacct taagagagta ttcttagaaa aatttttccc tgcttccagg accacagcca 300
tcaggaaaga tatctcaggt attagacaac tcagtggaga gagcctgtat gagtactggg 360
agagatttaa gacactat 378

<210> 5550
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5550

gtcctgcctt cttcattcct agttctcgtg aagtttaatg ttagtgcaga gaacctttgg 60
tgcttggtgg attaaaccat ttncaaagct gaaaggcata caaaagttca aacgaaacaa 120
ggtaaggaaa atacttcttt tttttatgta tagataaaat aattcgctat aacaacaaaa 180
ctctccctga gtatttaatg cgaatgtata cctaanaact tcaatatctn ctagaacaat 240
tatgcgctaa ttatttcacg ggttcaataa taatgataat aataataatt tatcatgaac 300
catagtgtga cccaagccct gtaatcaatt aattatactt tngtggtttt caattaactt 360
atctcaatta ttacactan gtgatgaaat gtttcaagcc aagctagtca ttacatttta 420
actacatg 428

<210> 5551
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5551

atgtgttaac tctcaagctn tntatgatta tatctgtgtg aaatataaaa aattcataaa 60
attactaata ttttaaggtag tatatgctta tcatttaagg taaaatatgt tnttaatttt 120
tatacttttg atcaaattta attttagtcc tttgtaatat gttaaaaatt taaagggatg 180
tcgcgaaaag gatataataa cgaaataata taaattttta catttatagt catattaaaa 240
ttcacattta atgtcatcta ataaatatta ttaattttca atactattta gcaagccttc 300
ttctcaccac atttaattta atgtcatcta ataaatatta ttaattttca atactattta 360
gcaagccttc ttctcaccac atttaatgtc gatcaattaa cnaattaaaa taataaaca 420
ttaataa 427

<210> 5552
<211> 330
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5552

cttctcgatc tattatgcgc ctgaatcgga cctncgagnt attagttatg actattaaga 60
tatctcaaga gcttccggtg gttaattgcg tgcgtctcga tatattatgt gcctgaatcg 120
gacctctgag ctaaaagnta tgaccatttg aatttctcga gagcttcttg tgttcaattt 180
catgctcttc gatataattat ntgcctgaat cggacctccg agttaagagt tatgaccatt 240
tgaatttctt gagagcttcc gatgttcaat ttcgagcgtc tcgatataatt atgtgcctga 300
atcggacctg cgagtgacta tttatgacca 330

<210> 5553
<211> 254
<212> DNA
<213> Glycine max

<400> 5553

aagactgtat aacgaatgat gaacgtcgaa gaacagacga aaaccttcgc gaaatcactc 60
acggaaacgt tacggaagcg cctcggcttg gattgtcttc acggaactaa atctcctcag 120
ttattttgag aaagagagaa gtgcctaagg tgctgaaccc ttttctactt cacttctcca 180

tggagtgcctt cttagtccaa tagcgtctta atgtggttgg cctcttgctt cttgactcga 120
 cttcttcaag ggatggcacc aatccttctt tctaattgct tatatggcaa ctcacaaacc 180
 aggaagcata gagacaagta ataaccaag acccaaaaga tgaaatgaaa gctaaaccaa 240
 tagatcttta acaagagata ttatcaagga ttat 274

<210> 5557
 <211> 382
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5557

actaagctgg tacaaacctt cactacatca accgtaataa tcctcctctg actgctatcc 60
 tgaatcaaac atgaattagg aaagaagggt aacttgcaat tcaatacaga aaccaatttt 120
 gatatagaga ttaaattgaa attaaaagat ggcaagtata gcacatcttc taagtgtaaa 180
 aactcagtaa atttgactgt tccaaagtgt gtgactatga cttgntgacc agtaggcagg 240
 cgaactacta tgggatttat ttctctatat gtagaataac aagtcaatga ggatgcaaca 300
 tgaattgtag caccaaagtc caaaatccat gctgcagctt canactgtg aatattacaa 360
 acaaaggata gtatattacc ta 382

<210> 5558
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5558

ctattacgga cctatgaaac tcagcttctt tactgcgttg atgccattca cgtaaataa 60
 ttcttatgaa ttntacagat ctttcatcgc taaagtaatt gtgacaatgt ttgntattat 120
 tatttcatgt atcatttgat ttattggtag tctaattcat aattcctggc ttgtgtctac 180
 ttttattgca ttaacttctc tgagcattga atactttagt gctcaacata gattcatact 240
 ttattttgtg tgcatatttt actactaagt aatttttatg acaaaattat gcagttgagt 300
 gttctgggat gtacaagact cagtatttga gggattgtg actattttat aagctacaag 360
 tctatggata cccaacgggt gaagcatcgt acttcttcat tagttgtatt gataaattca 420

ct

422

<210> 5559
<211> 84
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5559

atgatttaat tttcttacia atcatgaatg aagaacgacc antcttggag ttggatactt 60

agattagaag ggatgagggg ggtg 84

<210> 5560
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5560

cgaggtactt acccgttgaa gatcgaagaa cgatgatgaa cgaatgaaga acgtcgaaga 60

acgggtgaaa tctttgcgaa attcctcacg gaaaacgtta cggaaacgtt tcggaagcgc 120

cttggcttag attttcttca cggaacaat tttccaagc aaattcgaaa gagagagaag 180

tgcctaaggg gctgaacccc ttccttcttg ccttctccc ctatttatag caaaataggg 240

gaggtggttg cgcgccagct cgcccaggcg agctcagctc gcccaggcga gctcagctcg 300

cccaggcgag cagggttgct tctccagaa gcaaccgcct tctggaggaa tattccggag 360

ggcccaagtg ggccctgggtg ctatttgcac ccncattttt acttaagtac accccctct 419

<210> 5561
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5561

cgtgacacta tgaaactcag cttctaagga agtntctta agaaagcttc tcaaggaagc 60

tacctagtct ataaataaaa gcacgtgtaa cacttggtgt aactttgatg aatgagagtc 120

ttgtgagaca caactcanag ttcaattct ctccttnt cttccttcaa tttcgtgctc 180

ccccctctct ctttctctcc ctctttcttt tcttcattg aagcatctc tccaagcttc 240
 ttatccaagg ctcatcttgg gggatgaagct ctttcttcca tggcttattc cttaatggat 300
 ggagcctcct ctacactctt ttcctttgtc ttccgctgca tctccgtggg ggaaaatcac 360
 cattaagga cccattgaa actcanagat cccagcctcc cacaagcaag ctcccatcaa 420
 gtggtatcag aattaaataa c 441

<210> 5562
 <211> 544
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5562

atgagacatt gatnacgnga actatgtcta ctcaagctga ttttgtgatg anangcgttt 60
 antgggagat cttctctctc tcttctctat aagnnnnnga agnannaaag annannagan 120
 catgggggggt ctactttaat aactacgtat aacatgatat ggggtgtcaca cagttgatcc 180
 tggatgctga aatagaccga cagttgctga gaatgatcta ataattgata atctactgcg 240
 aanggctgag gaataactat taatgataca ttgaaatgat acaccttctg gtaagtaata 300
 ctttaattta aatttttagac taactagata tcgcttcata tttttaacga tacactgcct 360
 tcaatcaaat ctaaattgtca agccattaac tattaaagat actgagaata ttatctatat 420
 ntattaaata aaatatgaat acactttgtg atttccttgc agatgatttc ggaaatacaa 480
 agccgggaag gagcattgtg attctatatt taacgacatg tactgatgca atattgcatt 540
 acag 544

<210> 5563
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5563

cattacatag tttatttgat cttctacaca taatatacat tgatgtctag cttactatcg 60
 ccatatagtt tggcgaatta tatcaaattc aagttagaca acattatttt caatatttga 120
 ctcatgtat taagttgaat atgacaattc tattattatt tgtatctaaa gataattatt 180

ataaaattca atacatttac attacattcc ctacaagaat tataatacat aatattctat 240
aatattttat aatttgatga ccataataat gataaaatgc attacgctag ttaactccac 300
tgaaaccttn tcaatgaaac ttatgtctct aacatataat atcatattaa atatgaataa 360
ttttagtctc atgtacgtat gatataatat ggacttaact cataaaatnt tgacttttac 420
attanctcac gcttataaaa atttcttgcc c 451

<210> 5564
<211> 318
<212> DNA
<213> Glycine max

<400> 5564

atctaatacat tccaatccac ataaatctta caattgctca ttcaaatacat tctcaaacac 60
tcatttcata caaaataatc cactgcatat caaattcaac cagttcactg ttcaaacacg 120
ctctttgtac aagcaaacia ctcaaagtgc caaaagttat agaactgaaa cataaacatt 180
gaacattaaa tgactgaaca taaatcataa aataactgaa ataaactaaa atgttcaaaa 240
tgacaaaatt taaatgtcct gctcctgtgg gtgctcttgt gcatgctcat taagatccaa 300
cacctgagca actggtga 318

<210> 5565
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5565

ngaaggcatg taaccaccca ttttctcata ttagaacact gttaacgtgt ccactatcan 60
ttttatcatc tcgctttcca tcattgnggg cactacttaa gctgccagat ccctccacct 120
ctgggcgtat tctttgaatg attcattatc tctcttgac atgttctgta gctgcattct 180
atctgcggcc atattggaat tgtaccgata ctacctaatg aaggcaacca ttaggtcctt 240
ccaggaatgg atccaagaag gttctagatt agtataaccag gtgacggctg cccagtaag 300
aatttcttgg aataaatgca tcaacacatt ttaatctttc gtgtatgccc ccattntcct 360
acagtacatc ttcaggtgat tcttggggca agtagtcccc ttgtacttat cgaaat 416

<210> 5566
 <211> 476
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5566

actcagctta acattcanat tcgagcgtgt cgttatatta taggactcag tcagacatcc 60
 gagtaaaaag ttattgacgt ttgaatctgc tcagagcttc aacactcaat ttcgagcgtg 120
 tcgctatatt acgggactat atcagacatc cgagtaaaaa gttattgtcg tttggaattg 180
 ctcagagctt caacattcaa tttcgagcgt ctccatatat tacgggactc aatcagacat 240
 ccgagtaaaa agttattgtc gtttgaattt gctcacagct tcaacattca aattcgagcg 300
 tctcggtata ttatatgact cagtcagaca tccgagacaa aagtattgac gttgaatttg 360
 ctagagctta acattcatnt cgagcgtgcg ctatatacgg gacatatata catccgagta 420
 taagttattg tctttgaatt gctacagctc aacattaatt cagcgtgcga tatata 476

<210> 5567
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5567

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 ctgttagtgg gtatgaagtt ctggctgggt ntagtnttac cgattgggtt tgtaattatt 120
 tttttgttag aataggaaaag gatacctaaa aactagttat ttcttctggg tggagataaa 180
 ttgtaaaaga aagggaagaa aagttacttt gatgttcaat tgagtttatg atcctcttga 240
 cttngngtatt ggtgtgcgtt tgaatcggag aagtacatgc agcgggttat ttactgttc 300
 caaaataaaa cangaaacag aatggctcat gaattaattn ttgaagaggt tgttggtcat 360
 gtaattgaga atccgtttga gaagtggan aagaaaaatg tggcaagagt attattattg 420
 aagtctgtaa gtnaacctgg agactgtttt gattgaaagt gtaccataat tta 473

<210> 5568
 <211> 211
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 5568

tncttgagaa gctagagctt agctacacac acctctctaa taactaagct cacgtncttg 60
agaagagaag ctagagctta gctacacacc cctataatag ctaagctcac ccccatgaca 120
aaatacatga aaatacaaaa aaaaagtccc tactacatag actactcaaa atgccttgaa 180
atacaaggct aagaccctat actactagaa t 211

<210> 5569
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5569

taagaattgg aggtcctaata gattccttga ggaggtccaa acattaagcc tttgaattgc 60
cccaagtatt acgtgtaata tcgcttgacg atgtcaaaat tcacagacga aggtagctct 120
tcatcatcca tgttcataag aaacaacgct cctcctgaga aagtcttctt caccataaac 180
gatccttcat agtttggggc ccatttacct cggtgatcct tttggacatg cgacactntc 240
ttcagaacaa gatccccctc gctgaactta cacgggcgca ctcttcaatc aaaaacgtn 300
ttcactctgc actaatatag tctcccatgg cttatagtag ccaatctcat accctcgata 360
agaattaatt ggtcaaagca tgcttgggccc cactctgctt cttccaatcc taactctgct 420
aagaatctta a 431

<210> 5570
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5570

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ttntgtttac tttttatacg ccctattgac gtgcttaagc cattntactt aagtcatttc 120
tcgcttaact taaaaataaa atcaatttcc accaaacggt tgaattgtat tatccggtta 180
cttcggttaa aatgaattcc gaccgttcgg tcgtgctgta accacgttgg aaatcaaaaa 240

gaggtaaaaa ataatatagt aatcaaaaaa catcttttag taaaataaag cggaaaatca 300
 atcggacgtt ttttctcttt gggatttctc attcttaatc gaattgatta ataactaaag 360
 tgaaactaag gctaaaatca actcgcttag tcaagctcg 399

<210> 5571
 <211> 181
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5571

tcttagttga tgcagacgct atacgccaca tcatgcatg tgcgaaccg tttgaagacg 60
 ccacgagtgc gagtatgggc atatgaggaa cccgactgat tggtcgatga aaggccatcg 120
 ccatttctat gttaccgagc aggatttgca cgactgtgcc gaaactgggc ggacatcccc 180
 t 181

<210> 5572
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5572

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 cttntatac ccccttttga cgtgcttaag ccattttatt taagtcattt ctgcttaac 120
 ctaaaaaataa aataaatttc caccgaacgt ttgaattgta ttatccgtta acttcgggta 180
 aatgaattc cgaccgttcg gtcgtactgt aaccacgttg gaaataaaaa aagaggtaaa 240
 ataattattat aataatcaaa aaatatcttt gagcaaaata aagcggaaaa tcaatcggac 300
 gttntctctt tgggatttct cattcttaat cgaattgact aataactaaa gtgaaactaa 360
 ggctaanatc aactcgctta gtcaagctcg tncacaaata taggtttttg aagttgtcat 420
 ttcatttctt actaagtaaa tggatcatc 449

<210> 5573
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 5573

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aggctgttaa attcaaattc aaaatttgca aattatttca taaatcaatt tagccattgg 120
taatcgatta ccagagagga aatatcatat ttttgaaaat ataattgttc ttaaaaaaaaa 180
cttgtaaaat atttccttta gccaaacctg tgcagtatta attaaggaat tctttctaag 240
atcctaacta agtacatcgt tcttcttgca tttctgaatt cttgacttga attgcgctca 300
tctttggcat cattaaaact tcatatcata tatgcttcta caatactccn nctttttatg 360
atgacaataa tatgaaatca agataaacga tatagcattg ataat 405

<210> 5574
<211> 351
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5574

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tgaattggta cctaagagta aaatttagcg attaaatagt tacagtctct aaatcgctag 120
catatatatt ttttgttttg ttttttggtt atcatgattg ttgcatatga ttgttcttaa 180
ttggacctaa attgacgtac aaagaattgg gcaccctcca aagtttggtga caatgatgca 240
cagttattgg tccaaatgtg aaccggcccg cattgaagtt attgtgcatt attattatga 300
atagaanaag aaaggcttac attgggttcag ttctctatta taaatgggaa a 351

<210> 5575
<211> 288
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5575

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gattacgcac agataaggct atcatcttat agatggatat ctaacttgag cacattattt 120
tttaactctc aagatatata aggagttttg agagtttttt ttttttttta caaactntga 180
atgtatagaa taaagcttag agagaataag aaattcaaaa ataatttggt ctttgtaa 240

cttctagtat ttataaactt ctttaacaag tagtcgttat ctctaaac

288

<210> 5576
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5576

ctttaacaag ctctgaacaa tataacttggc cttcatttaa ctgtctcttg gcttggcggc 60
cacgctcaac aaagtacttt cgacacctac tgtacgttga ttgaccaag gctgttatgg 120
gaatgttgcg acaatccttc aaaaccttat tgatacttc tgagaggctg gttgtcatgt 180
ggccatatcg acgtccttct ttatcataag ccatcagaca ttttttcttt gaaatgcgat 240
caatccatgt tgctatggct ggacttagtt cacgaaattn ttctaaatct tgatcaaaaa 300
tatgcttgca aggagtggag gctgcatana attacttatc aataacaact ttaagatata 360
tggaagtaaa taaactgacc ataaatat 388

<210> 5577
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5577

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tcgaagccat caagggatgg tcgtttctcc gggagcgacg cgtccagctc agggacgacg 120
agtatactga ttttcaggag gaaatatggc gccggcggtg ggcaccactg gttactccta 180
tgGCCaagtt tgatccagaa atagtccttg aattttatgc caatgcttgg ccaacagagg 240
agggcgtgcg tgacatgaga tcctgngtta ggggtcagtg gatcccgttc gatgccgacg 300
ctatcagcca gctcctggga tatccgatgg tggttgaaga gggccaggaa tgcgagtatg 360
gccagaggag gaaccggtct gat 383

<210> 5578
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 5578

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 aagatgtaac tcttcanaag gtttttgact ntntcaaatt ggttttaagt tcttctaaaa 120
 gttataactc ttctaaatgg tcttcttggt cagacatgaa gagtctataa aagcaaggct 180
 ttgatttgct tttcaatata cttttccaat caatcttata caatccttta caagccttga 240
 atctcttgga acttcttctt cttctttgtg ccaaaagctt tccaaagttt tctgggtttt 300
 taaaccttga aaacttggtc tattcatcct tatcatntc ttctcccttt gccgaacaga 360
 attcatcaag gactaaccgc ctgaattctt tttgtgtctc tcttc 405

<210> 5579
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5579

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 aaacttgacc gataaataga cttgtaggtt agaccaagcc tatgctctta aaaaagcctt 120
 taacaaagtc tagctcagct caacttattt tcacctttat gtttggtcat tgtgaatatg 180
 acaccttcta tctcacacat atatgtacta ataataaaag gaataaaaat gtgaaattaa 240
 ttaatagttt ttaaatacaca tttaaataaa agtctttcaa aagaataaaa ggctcacatt 300
 cactctttta acatcataat agaacttggt caaataaata ataaatcatc tcggctcana 360
 gcaaggtncg ccaagacttc atgcaattta tatagaaact tatactccaa tgtcacatnc 420
 tatc 424

<210> 5580
 <211> 217
 <212> DNA
 <213> Glycine max

<400> 5580

ggacttcacc cctcgtgtca tcccgggaaga tttagccaa gccctactt ttgaggggca 60
 actcccacct tatgaagact atcccgggca agacgatggg gaaggagata cccatcttgt 120

gccgtgctc caccacaaag atccatcccc gcatgaacta cccagtcac acatagtccg 180
ccatataccg gcctcaccca caccgtaaa agaattc 217

<210> 5581
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5581

tctttggacc ttgaacaggc aactaactcc tctntcagaa ccatgctatg tgctcgcgac 60
tgagcccttt cttcctttcg caacttgagt tcaactattgc taccatag agctccgca 120
aatttggtcc ggccatactc tgtcttgca gccctcttg tctcttggtc aagggtctt 180
gcggaattg cattctctc cagtaacccg gcacactct tccgaacgtg ttagcggcc 240
aacttgaact tctcctggc aagttttgcc tttcctaact cgcttntgag agctaggact 300
tcttcgtct cttccgtgc ttcanaactc tctttgctga cgacttttaa cttggcgagc 360
caatctaac ctcgtatatg aac 383

<210> 5582
<211> 183
<212> DNA
<213> Glycine max

<400> 5582

ctagtttagg ggccccct ctctccctcg cgggagactc tctctctctc tctctctct 60
cttctattct tcgttattag ttttagtctc tctctctctt ctctgttatt tctgctttt 120
ttgaattcca gttcagactt ttagttttat caataaaatt tcattctcta tttgattaat 180
gga 183

<210> 5583
<211> 342
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5583

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aatagagacc atatgaattg ctcaagagct tccattgttc aatttcgagc gtctagatat 120
 ataatgcgcc tcaatcggac ctccgagtta aaagttatga ccatttgaaa tgctcaagag 180
 cttccattgt tcaatttcga gcgtcacgat atattatgca cctgaatcgg acctgcgagt 240
 gacaacttat gaccatttga attgctcaag agcttgcatt gttcaatttt gagcgtcacg 300
 atatattatg cacctgaatc ggacctgcga gtgacaactt at 342

<210> 5584
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5584

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 gtgtctttct catctgccat gcacttccat gtttaatttc gagtgtctcg gtatattatg 120
 cgcctaaatt ggacatccga gtaaaaagtt atggccattt gagtttgcct agaacttttg 180
 tgttcaattn tgagcatctt gatatattat tggcctgaat cggatatcca agtcaaaagt 240
 aatggcccat tgaattntcc ttctgcttcc atatataata ttgagcgtct cgatatgcta 300
 tgcacccgaa tcggatattc gagtgaaaag ttatgaacca tttgaattct tgagaagctt 360
 tcgtgttaat ntttgagcgt cttgaatatc atgggcctca atcatacacc cgagtcnaaa 420
 gtatggtaat tt 432

<210> 5585
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5585

gagacattta acatanaact agtcaatgta ttctacactt atgcacatgt tgaccttgaa 60
 cgtaacctct tctatattgt taatggagtc gatatggtcg cagatgtttc catgtggaag 120
 gaagttgctg gtctagacat aggtggagtc cataagtttg atgaaactac agatggttac 180
 aacaagatgc agacatatag gggaatgctt cttgatagtg ttcccagaag tgatcaaaaa 240
 cactttaatc aattaaatca agaattctaat tgattacact attctttana gctctctagg 300

tattgggaag aacactntaa tcgattacct ctcttgact ctgntttcat atgtntttac 360
atattggtgt agcatatgta tgagtttcta aagatgc 397

<210> 5586
<211> 367
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5586

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gaaatgctat gaagattaag ttagctacaa ttggggattc gatataatatt tacaagtttg 120
ggtagctgat gatgtattgg aaactgaagc tcataaactt aataaagcag ttgtgttcac 180
ataaagttnt tgttattctt attagcctct taatggaagc atccccata atgaggtttg 240
gatgatgtan gtctgagagc tcgtgtgtcg atatattata tnttttatc ttattagcaa 300
cttttgagac ttacatctt aagttagctt agagacaaac atatacgttc agtctctcta 360
tgtatgt 367

<210> 5587
<211> 348
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5587

taaaagtact ttttaattaa ctaatgatga gaagactctt acaccaataa tactcgtttg 60
ttaaattctt ttataaacta tataaacttt ccttttccgc ttaccatgca ttacagctgt 120
atatatgttc ctttgaaaag aaaaaaatg aaactcatcc atcagacagc ttcaaattcg 180
taaaacttca cgaaaaatct gtcaattntc acttttaatt atcgctcgga atgtgtgagt 240
ggcttgctat tatatatctg attaatcga ctggaatgaa ctgtttaaaa ggataaattt 300
ctcactgtat tattcattta tttgttcag aaactttcca tatctagc 348

<210> 5588
<211> 360
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5588

cgcatacttt gnggataaat tgctgatgtc aatgggctcc ataaccata atcatctgta 60
caaatgaaaa tattcaaata gagactcttt ttgtcctttt ctaactatgt acaactcttt 120
ttggaaatcc attattattg agttatgctt gtgattatta caagtatata gtacaatgca 180
aacttcaact tatcatatat agagaagaag aaataagaga ctacacgac gactggtgga 240
tatatagtcc agcacttacc atccagacat gagatcattt gctcgtgggc ncatatttat 300
ctaatttgta tttgaatatg cctcanacca attagacact atgggtatgc ctatcactcc 360

<210> 5589
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5589

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tatgtgcttt aaccggaatg atatcgatat ctacattaag tagaatattg tgcactata 120
cacanacata caataaatat gaaatattat ttcgttcgat aataaacatt atttggtatt 180
gctttagtct tctggcacga tatatatagg ggcccgctctt gtaaatttta ttcaagtatg 240
tgtgcaactg acatatcttg ctatagactt tttgattgat gcatgcaactg acaccaatta 300
tgaaagaagg gttctgaata ttgtcccaat taatcacatt cnttgaaaat gaaatgcttg 360
tcataacttg tattctatat atgttatgat attaacattt ccaatatctg atttctgggt 420
ggtaaaagta gtatat 436

<210> 5590
<211> 299
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5590

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gaatcttcgc gtaattactc acggaaacgt tacggaagcg cctcggcttg gattttcttc 120

acggaaataa ttttcctcag caaatcgaag agagagataa gtgcctaagg ggttgaaccc 180
 ttttcttctt cacttctccc cctatttata gcanaatagg ggagaagctt gccgcccagc 240
 tcgcccaggc gagcaagggtt gcttcctcca gaagcaacag ctttctggag gaatcttct 299

<210> 5591
 <211> 266
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5591

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 tcctattcta caccggagac ctacatatac taagagggga aggagctgca tcaacttctt 120
 gggattctgg cagatcttgg agctttaatc tcgctgagtt cattaagat tgtggcggt 180
 ttatctacac gtttgtgtca tccacaacta tctctttagc atcttttctt tattttacat 240
 cattcctttt aactatatta ttgata 266

<210> 5592
 <211> 345
 <212> DNA
 <213> Glycine max

<400> 5592

cttcttaagt acttagataa aatgattact taaagtaaag gttctaagta aaacttaata 60
 ctaccacttt agaagctacc ttataaaatc acaagttatg ttgtcatacc aggtttggct 120
 tttcacattt ctaatgcaag gtagatgcta cttttgaata ataaaactgc tttttaaaaa 180
 ccgtttgata aaatatcata gtaaagcttt tgtaaacaag gtttctcaa aactaaagat 240
 gaacatgcaa caatggaaag taaatgagaa acaatgaaga aggatacaat acacaaagaa 300
 attcacattg gttcaaccta accaggggag tgtataccta cacct 345

<210> 5593
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5593

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 anaacctcac tctntttcca ctcataacac catattctca ctntctaacc ctaggttaac 120
 tctacccttc atctctaaca gttttccata agcaatttca gcacataaac atcacaagca 180
 tcatcataaa aaccctaaaa ctgaatgggt aagcttaact catccaaaca tggcaagttc 240
 aacatccttt caacaaatth cttcaciaat aactatcatg aagcagaaac ctagcaaaac 300
 taccatcat atctcccaga acccaatacc cacgaaaatc aagtgagaaa gaagtctacc 360
 canacctgaa atttaagggt ccacacgtag agat 394

<210> 5594
 <211> 359
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5594

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 atcctttcac gaaaatgctt tgtgtaatcg attacactga tttggtaatc gattaccagt 120
 gatagtttct gagcaaatca aaagatgtaa ctcttcaaag agtttttgac tttttcaaag 180
 tggtttaagt tnttctaaag gtcataactc ttctaattgt tctcttgacc agacatgaag 240
 agtctataaa agcaagactn tgttntgcat tntaanaaca tctttccaat tcattcttta 300
 gacaacaaac ttttgccaat tgctttctga gtctctttga acttcttctt tctcttct 359

<210> 5595
 <211> 301
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5595

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 gatgatgatc tctcgaatca aaaaatgagt tcgagattga atcacgaaca cttcaagggt 120
 ccgatggaac attgatttct agaatacaaga attaagtttc acgattcaag ttccaagaat 180
 caatatccag attcaagaat caagagaaga cttcatcaag ataagtatta aaaagtcttt 240
 tcaaactg agtagcacat gaatttttct cagaaccttt taccaagact ttctagtctc 300

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<223>      unsure at all n locations
<400>      5596
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ctgctctgct	ctcacttctt	ttatatatat	cataacatat	gcatacacia	aagattgaag	60
caagtcatat	ttacaacaca	naatgatcaa	catcatgata	cttctataga	tatctaacta	120
tgtcagtgt	ttacttctca	gctctgggtg	atttgatgaa	caccagaatc	cagatcccc	180
tccttctgcc	agtaatgcaa	gattcagggt	aaagcatggt	tttttctca	ttaatatctc	240
ttcacgaatc	catcctaatt	gaggtaacag	agaaccaatg	gccatagcat	gcctgcacag	300
aagactcttc	tgctatccta	tg				322

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<223>      unsure at all n locations
<400>      5597
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gtggtattat agcacaagag cttcaagtat gtgctcctta aacctccata tatattttgc	60
tgtaccttct cttctatagn tgcttcttca ttcttctcca tgtatctcct cacatgtctt	120
gtgataaatg tttntaacat gattatttag agtttccact gattaaattt gctatacaag	180
ctagatttga ttttctatgg ttcaaatttc ttgggtcttgt tcttgaacca tgaattttgt	240
tgagtttaag ttcccttgag ttntgtcttg atattttttg tggctgacac cgaaaccata	300
aaattcttac aaacatatta aagtataaga aaacctcaca catctagagt gacttgntca	360
cctattgtag ttntgtcata caagtcatg	389

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<223>      unsure at all n locations
<400>      5598
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 ttccgagagca ttccggtgttc aatttcgagc gtctcgatat attatccatc tgaatcggac 120
 ttccgtgtga taagttatga ccatttgaat ttctcgagag cttccgttgt tcaatttcaa 180
 gcttctcgat atattatgca cctgaatcag acttccgtgt gaaaagttat gaccatttga 240
 atttctcgac agattccgct gttcaatttc gagcgtctcg gtatatattat 289

<210> 5599
 <211> 253
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5599

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 taactacata ttaacacgag ctgacggtag agcctccttt agggctcttaa atgcttggtc 120
 agcctccaaa gtgcattcgt aaggatccct actggtgagc ttgaccaagg nggcaacaat 180
 atatagaggc atacccttga ataaaccgac ggtaaaaatc ggcgagaccc atataacttc 240
 atatagatct cgt 253

<210> 5600
 <211> 295
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5600

agagtactta gtgagagtga ttctcctaaa ttcttgagtg attcaagaac accctggctg 60
 tatcaaagga ctgtcacaac ctttgtgtgt tgccctcgct ggaaagagtg attctttcct 120
 tcctatcatc tccacccttg gtctttcgaa ccacaattcc agatnatgca cctctgccc 180
 aaattatctc gtgaccataa ctncatttc acacactcaa attaagtgat tcttgagcct 240
 aaattgaatn tcataacgag acatttcacc tcgntgtgga atcacctcat ttgga 295

<210> 5601
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 5601

ctcagcttac aatcaggaag cgttgatggt gtcacgacc ctccattcct agtcagacgc 60
cacgtgaagt ggaagatggc ccgcacgaag aanacagggg aaatgacgac tgaggccgca 120
aaggaaatcg ctgagaagat tgtaagtcac tntcaactaa ccattacaat tatatttcaa 180
tattttgtga atgccatgta ccaactgtgtg ttttctgtgt aggattcttt tgaggagcag 240
gccacacagg gatccttcgt cctcatcga cgtcaggatg ttctcgccgc tgctattgga 300
cgtccagagc accctagatg tgtccatgct gctggatcct gtgtcaccat caatcaatac 360
tttggatc 368

<210> 5602
<211> 131
<212> DNA
<213> Glycine max

<400> 5602
agttagagct ttagtagtaa gaatatctgc ttattagtct ggagatggat catggtacac 60
taacatgctt ctatttagta cctttctgca cataaaaagt ggcccaatat gtatgctgtg 120
tcctggagtg a 131

<210> 5603
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5603

tgcggtctg ggagacgaaa gtcaagtgtt cgctatatgt gaagatgatg ttccaagtac 60
ttcggtttg gtccgaccat gccctcctga tttccagctg ggaaattggc gaggaggagga 120
acgccccgac atttacgcaa caagcataat gtaaaccctt acggttntaa aagctctata 180
gttgggccta ggcttttagag ttctcatnt gttaaggctc tgtgtctttt gtttttgaat 240
ttataatata aggatctttc ttcatctgtt cctggctctc acccattctc attcatttgc 300
atgtttactt ctttttctga aacggcagat tcgatgacga gtccccgaa gtactaatac 360
ctgngacccg tcta 374

<210> 5604
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5604

nttcgtanag catagcggaa gatctgggac ctagtcatgg tagatgtctc caccgaggcc 60
attgcctccc tcgccaata ttatgactag ccgttcaggt gcttcacctt tggggacttc 120
tagttatcac ccacggtgga agagtttgaa gaaatcctat gatgccctct atggggaagg 180
aaaccatacc ttttctcggg attctatccc tctttagcta gaatttcaga gatagtccaa 240
atctcgggtgc aagaattaca ccacagaaaag caagtcataa atggcgtggt tggaatacca 300
tcgaaatgtt tggaagcgaa agcaagagtc tcggcaggta acgacgaatg ggaacagttc 360
attgacatac tctcactgtt gatctttgga gggtcctctt tccaatatga tggg 414

<210> 5605
<211> 292
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5605

aacttcgcca aaaatccgca ttgagaaacc ttatttcaaa cctttcacag ttagtgagaa 60
ggctaataga aaaattatgg aacttagaac aactaaatcc ttaattgaag gcgtagggtga 120
caaccatagt gaattactaa acaagattgg tagtttactt aaagtcattc cagatacccc 180
ccaagcctcg gaaaatactt ncaaaatggg gacaagaagt acctgcaa ataatcaatgc 240
tattaatgaa gatagtgacc aaaactcata taacacaact gagataggat ca 292

<210> 5606
<211> 310
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5606

tactcaattg aatcaacaac agtcccagaa ttctgacaag ctgccttctc aagctgtcca 60

aaaccccaaa aatgtcagtg ccatttcatt gaggtcgga aagcagtgtc aaggacctca 120
 acccgtagca ctttctcat ctgcaaatga acctgcaaaa cttcactcta ttccagaaaa 180
 aggtgatgac aanatctac ctaacaattt ctgtgcaggt gaatcttctt ccacaggtaa 240
 ttctgatttg cagaagcagc acattcccc tttccattc cctccaagag cagtttccaa 300
 cnaaaaaatg 310

<210> 5607
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5607

atatcccacg aagcactact acatcatatg tgtatgacat cacttatgga atgcatacta 60
 catcaattnt agaactcatg ttgntcaaca caatgttaaa tatatgcata tatttaacat 120
 cgatatgatt tcaaatcaat gtagaacct aataacattt aacattggtt ccccttgatt 180
 ntgatgtang aagtgcacg ccttgcacg gtcaagtcac atcttacatc atttattgac 240
 ataaccgatg ttgaaagttt cgcttactac attgatnta gcaaaaacca atgcaaaatg 300
 tatttttttt aataaaaaag ttagcatttt gatatgtatt cattgggtcc atgtntatan 360
 ttgngaatat gcatttata tattaatata ctattaccta tatgctatca agttaatttt 420
 ttttta 426

<210> 5608
 <211> 347
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5608

gtcttggatt cttctagtaa gttatcttat ccacttctca gataaaattt cttctttatt 60
 attaaagagg agaaaagaga gaaattcttg aatggctctg acttatataa gattattgta 120
 gaacgaaaga acttgggtctc tataacaatt atcccaaat aagataaaat tatcttttaa 180
 gacaagtgtg ttacctttt caaatcaact aagttctttc tatgataatt agccttacaa 240
 aanaatgtga aagacattat tgtctaataa ttcatattag actctatacc gacttctcta 300

acagtaaaaa atgaatattg ttaattaaac tattgtgata accatct

347

<210> 5609
<211> 208
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5609

tatgttgatg cctactattg atatatagca ttgaccatac atgatactag ctagagagaa 60

tagaaactat cgataatagt acactccata ggtagtaaac cacancaaac tctagtggct 120

tgcataactt tagataaatt tagcggctct taatgcttat cctatatata ttataatgac 180

ataagtatct ctaacttggc acctccta 208

<210> 5610
<211> 302
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5610

atatgcatgc aatctacgga ggggagcggc gttgcgaagc ccanaccctt ggtgatatac 60

ttcactaaaa gcgcagcttc gcaaaagcct ggacaccctt ttgtagccaa acctgttcct 120

ttcctgtacc aaaatagcca cgcgggtcccg tggagatatg cacctccaag ggagaaggaa 180

gaagaagtca ctgacgtcag ctgcgtgtca gctaaagtaa caaatatcac gggactgagt 240

ggtgtgacct gtagtggtcg tgtgttcgca cctccggacc taccagtcca acccgcgac 300

gt 302

<210> 5611
<211> 265
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5611

ttattccatt tattactttg atacatacgt tcatagattt gtcattcaga ataataaaga 60

aatatatagc tctctaactt atactgttgc ttgtcattat atatacatga tcctttcttt 120

ctttgttagc ttctcagaat ttccgcatgc tttgtgaatc ttctttgntt atatctacgg 180

acaggtgttt caatttgtga catgtatagt tatggaaaac attatgtgat catgaagctg 240
aacaaggttc aagcatactg tatat 265

<210> 5612
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5612

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atggcatgaa aatcatgaat atgataaagg taggacatat gtactttgaa gacgtatatg 120
ccatgatgca agagaatcaa cacattgcta cctgatatta tgttcgcatg tatgttcgag 180
aaacatgaga gtntgaggtt caagaaattg taaatatgcg gcttggttga cgagcaatgt 240
catgcattgt cnacatgaat gaatggtcgt gtgattatgg agaatatcac acacttcana 300
ttccttgctc gcatgtgatt gcaacgtgtg ctntttgcaa ttcagattat gatgactctg 360
tcgatcctat atacaagttg gaaaaca 387

<210> 5613
<211> 345
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5613

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ntttttgttg tgactagcag atgcttggtg aaagtatgat ccaatgcaca aactactaga 120
cttattggat tctctccttg cctcctagct ttcagatctg aaatatcaca aatcacacta 180
gaatgagggg tgaacagtgt taataaaata caataactnt tttgtaaatg aataatttat 240
gacaagttca naaagatata tgcattggag ttgtccactg ataaggaaaa acaagtttga 300
cgaaaataga ggtcgatcat tcagtacatg tanagcaata atttc 345

<210> 5614
<211> 307
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5614

taaacaaaaa tcaattgagg gagcttcgcc aagtgtcccc atcgaaattg agaaaccttt 60
attcagacct ttcaaagtta gtgagaaggc taaacggaaa attaggggaac ttagaaaaaac 120
taaatectta actgaaggcg taggtgacaa tcatagtga ttactaaaca agattggtag 180
tttacttaag gtcattccag atactcccca agcctcggaa aatacttcta aaatggtaac 240
aagaagtacc tncaaattaa ttaatgttat taatgaagat agtgaccaa actcagataa 300
cacaact 307

<210> 5615
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5615

tctcacctct tctcctttgt cttccgntgc atctccatgg tggaaaatca ccattgaaag 60
agctcatgga agctcanaga tccagcctcc atagaagccc cacaagcaag cttccatcat 120
ctaatttcat taaaacccta aaaattaaaa gctaaattct atgggtttct cccctaaggt 180
taaccaaagt aaaagagtaa agggaatgag gaacttactt ggattggtga tggctgaaga 240
ttcgtanaag atgcagaaag aatgaatgca naaatgcacg aatttggtga gagagaggat 300
gcacgcagtg ttctaaaaat ttcaggcaca tgtgagtgt actgatggta cactcactta 360
agtaattttt accctc 376

<210> 5616
<211> 429
<212> DNA
<213> Glycine max

<400> 5616

agcttgaaat gaggaagtgt agaaggggtgg ttcttctgc ttttattcgt cgaccacaga 60
gtggtacctg gagatatgtc gggggggtca cgagactttg gggacgtcag gtgggggtgct 120
attgccaca accaagcttg atcaatcccg acccaaccg ggcatttca gtcagtgaga 180
acctgtgatg tacctaagca ggcgagctct tggcaatcaa cagataaaaag gaacaaagac 240

cacaaagcaa ggaggcttgt gtggtggctg gccagctgtg aatcttgctg gatatatggg 300
 ttatggcctc tggtaatcaa ttaccaaagg tgggtaatcg attactaggc ttataaatga 360
 agacaggacg ctatgatggt ctctggttat cgattaccaa ggggtgtaat cgattaccag 420
 gctttgaaa 429

<210> 5617
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5617

agctntttgg agtagaaaca tgggaccaac tcattttatt tcaaaaagga agtcgtatct 60
 agtcaaggctc ttagagacca tacaagtttc ctaacgattt ctaattatgt gggccattaa 120
 gtctatcata tgctgacaat agccgagaag cccatgaatc tcttcggggg cggagtaggt 180
 gtctgccatc gccttggcct tggctaataa tcggggaagt tcttgactcc cgttcaaggt 240
 aagagcaaac cgatccatcc acatggttgc ctcttggtgt aaagagtcga tcacccttcc 300
 tctagcctct ttttccgcgt atacttgggc atattcgtcc gcaatcctat gctcgtgggc 360
 cgcggtctaga cctaactctt cttggtactt ggcgatgata gctagcatgt tgggtctccgt 420
 ctgcataaa cgctgagaca agcttctttt 450

<210> 5618
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 5618

agcttaatga attttatact atatttatta taaaaagaat taaatagctg aatattttta 60
 caatgaccgt gagcaattca atgccaaagg gcggcaaat ttggcaaata ttcaaattta 120
 agtttttagt ttattaaaaa cgcaataagt atatgtgtta ttttagtcac aattttttta 180
 taaaattcca aactttttga taaaatagtt aagtctaat ttttaagtga tagaacgtta 240
 agtttaggtc ttaaaagaat tttttaaaaa atgaaccttt aaaaaaagg taaattactc 300
 atttggttcc tatagtttca taattcttac ctttttggtt cctataactt gaaagtgggt 360

tttttagtcc ctataattta tattataatt ctctcttact ccctataatt ctgaaagtgg 420
atatttaa 428

<210> 5619
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5619

agcttgtgag acanaaggac ctatgatcat ctgaatcttt acactatcag cttagatata 60
aatccatatt aggtcccacc acccaaaagt gccatagaca tgaaagcatt tcaaagggac 120
aatgacaaaag aataacacag taaaatcaaa ttatttgtaa cataaacctg ngggagaatt 180
ggtttcacia atctttccca gtttttatgt ttatcaagta cacatattga taggctcatg 240
aaggccatga cagaaaaata aaggaaaata agccaaagta gttagagtag atatagaagt 300
agttagggtt ggtttaatat tagttagtta ctgaattagt ttggtggcta gcttaaatag 360
cagaagggaa gtataagatc actcattctg cattgttact tagtgtactt accanaatcc 420
agagccagga catgtcaagg tagatgtg 448

<210> 5620
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5620

agctntgagc aaattcaaac gacaataacc tttntactcg gaagtcggat tgagtcccgt 60
tatatatcca gacgctcgaa attgaatggt gaagctctga gcaaattcaa acgacaataa 120
cctttttact cagatgtcgg atagagcccc gtaatatatt gagacgctcg aaatggaata 180
ccgaagctct gagcaaattc aaacgacaat aactttttac tcggatgttc gattgagtcc 240
cgtaatatat cgaaacgctc gaaattgaat gttgaagctc tgagcaaatt caaacgacaa 300
taaattttta ctgggatgtc cgatggagtc tcgcaatata tcgagacgct cgaaatggat 360
aaccaaagct ctgagcaaat tcaaacgaca ataacttttt actcggat 408

<210> 5621

<211> 384
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 5621

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 atgctagagt ttaagaattc gactctcttt ataactctgc caaactcatt tgtttgcttt 120
 tagacacaaa gtataagttc aacagaaatt aatctttgcc cagtttggtc ttcttgggat 180
 ttttgttgtg cgttcaagat tntagtctct tagcctctct agtgtattac gttaacattt 240
 atggaaattg actttataac gtggatctca ccaatatatg cttatagcat tagtcacata 300
 atatctgtac atggatataa taatgttgaa tgtgactttc atattgattg ctattaactc 360
 taaatgttcc tataggtata acta 384

<210> 5622
 <211> 430
 <212> DNA
 <213> Glycine max

 <400> 5622

 tgcttaccac ataaattggt atattatgat ttagcaatgt cgaatagatg aatgccacag 60
 ggattgctaa tatcaacacc tcaataataa taccgccagg tgtatgactt gcatatacat 120
 gtactcttaa agcatgaaga ttgcatgtga atttagtctt tttattttat cggcaaacgc 180
 tagcttttgt tatccggcag attcaaacc acatgaattt agtcttaa atcagtcctt 240
 ggaatcctat aaatataggc gattgaaata gacagagttg tagctagctg cttaccattt 300
 aatacatatg ttgatgactg agaaagacaa tggatcatga tgatcataag acagagctca 360
 aacctatgag ccatgatatg gctcgcacca agataactgg tcagatgacg tctgatgcaa 420
 aaacgaaatt 430

<210> 5623
 <211> 438
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 5623

gaatcgcgaa tttttggcac ccttatcttc ctaaacgatt ctttgaccat atcaaagtct 240
 agaacaacat cttgtgttgc atcagactct tcaacaaagc cccaccagtg gcaacaattg 300
 tttgcgtaag tgaaaacccg agaagaaccc cagatttcaa ttggaagagg gagaagagag 360
 ggatcaagtt ttctccaaga gtttgaattg aggctataca actcagcact ccaataccca 420
 agttgtcttt catc 434

<210> 5626
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5626

agcttatata aatcgatacg ctcgaaattt tacatcgaaa actctcgaca aattcaaagt 60
 gccatatctt ttcacacgga tgtctgattc gggcgcataa tatgtcgaga ggctcgaaat 120
 tgaacaatcg aagctcttga gaaattccaa tggtcataag ttctcacacg gatgtccgat 180
 tcaggcttat aatatatcga tacgcgcaaa attaaacatc ggaaactctc gagaaattca 240
 aatggccata acttttcaca cggatgtccg attcgggcgc ataatatgtc gagaggctcg 300
 taattgaaca acggaagctc ttgagaaatt canatggtca taacttttca cacggatggt 360
 cgattaaggc gcatcacata 380

<210> 5627
 <211> 448
 <212> DNA
 <213> Glycine max

<400> 5627

agcttggatt tcctttgctc cggaaacctc ttcttttctca tttgaacca aaccaatct 60
 ccgggttgga aaacaacctt tttgcgcccc ttgtttgctt gtctagcata gctctcattt 120
 ctcttttcaa tttgggcctt gactctttca tggagctttt tcccatagtc cactttggct 180
 tgtccttctt tatgcttaaa aactgaaata ttaggcattg gcaacaaatc aagaagagtt 240
 agtggattga aaccataaac aacctcaaaa ggagaacaac tagcgggtgtc atgcacaacc 300
 ctattataag aaaattcaat atgaggtaag caaacttccc aatttttaag atttttttta 360

aatgggcctt agcaagggtac ccaaagtcct attcacaacc tctgtttgtc catccccattg 420
agggtgacaa gcagtagaaa atagtaac 448

<210> 5628
<211> 446
<212> DNA
<213> Glycine max

<400> 5628

agcttcttga cttgtcttgg aaccagacca caatctgtaa ccccagggtac ctgttcatgt 60
caagaggtat taggaaaatg atatctaaag aatttagaaa aaaacttagc actcagaatc 120
aggctagcta atacaacttc aaaaatgtag tataccagta tcattctcaag tccctttgtc 180
aaaccaacaa gacgaggaag tcgctgtgtt cctaagacaa tttaaaacca ggtagcaat 240
actaaagaaa aatataataa tgacaattag tcacaagaaa tgcaccatta ctcatggtct 300
aacttcattt tacaaattat tctaggccta tctaactgt gaactaagggt attaaaccaa 360
acttgtagtt aattaataaa ttcattataa ttgaacttca aacagctttc aatgtaatgc 420
atgtcactca acaatgagca gtaaca 446

<210> 5629
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5629

agcttcatga tgatgaacct agcaattntg atgatgtcaa aagcccaagt gatatatcca 60
atacttcaag atcaagcatc aagaatccaa tccaagattc aagattcaag ggaagaaatc 120
aagaagaaac aagtcaagac ttcatatgga ataagtatta aaagattttt caaaaaccaa 180
atagcacagt tttgttttac aaaataattt tctcaaattt tctcaagtta ccaaagtgat 240
tactctccgg taatcgatta ccagttggca gtaatcgatt acgagtaacc agattggggt 300
tcaaaatggt ttcacatgat ttgtaacgcc ccgaaatgat nttcacatag tgtaatcgat 360
tacactatat tagttatcga ttacaagtga atctgaacgt tggaatttac aatcaattgt 420
gaagagtcac aactcttcat aaaatacatt g 451

<210> 5630
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 5630

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cctgctgcat gcaagctttg agcaaataca attacttaac tttttactcg gatgtctgag 60
tgagtgtcgg aatatatcca aaagctcgac attgaatgtc taagctctga gcaaattcaa 120
acgacaataa ctttttactc ggatgtctga ttgagtcccg taatacatcg agacgctcga 180
aatggaatac cgaagccctg agcaaattca aacgacaata actttttact cggatgtctg 240
attgaggccg gtaatatatc gaaaagctcg aaattgaatg tagaagctct gagcaaattc 300
acacgaccat aactatttac tcggatgtct gactgagtcc cgaatatatc ggaacgctcg 360
aattgaatg                                     369
```

<210> 5631
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 5631

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agcttaatat ttaatggtat ttttaagaaa agcccaagcc aaacttcatt aattttaaca 60
gaaacgcaaa cacaaagtaa acaggcagaa aatcataaga catgcaaaaa gttatcatta 120
attttcagtt gtttttagac tagctgttgt ctaacatgtg taatgatgag acaatgttga 180
atacttgtaa tattgtttac atgttgtaac aaaagtatth tgcagaatgt cccaaaagat 240
ttctctaaat ctttccctct ccctgggttt gtaccttcag tttggacttt aagctgttgt 300
agttgataat tggtttgag gctttactga caaagtcaca aatctgagaa gaatgggtgc 360
ctttaacgca tgagttactg gcacacacaa attcatcatt ttattgtata caaaaataat 420
taccttctca at                                     432
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<210> 5632
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5632

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aatctccttg ggaaagacat ctttaaattc ctgcaataag ggttgaacac taggagaaac 120
ataaatagtt aactgattag aattatcaact ctctctctct tgtgtatcac tcttttcctc 180
gggtgtatca ctcttctttt tcatattcct ttgtggtgcc tcactatttt ctttctcttg 240
ttctctcttt tctctcatte tgatttggtc atcacacact tttctagggg atagagggtt 300
aagagtaaac gaggaagatt tggctattcg tctgtagggc tcttctttgt tacggntcaa 360
taaacgttgc atttgtgtag tccacgcgtc cagaaatatg cgctgagatt tctccagttg 420
atgatataca ccaccat 437

<210> 5633
<211> 429
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 5633

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ccactatatt tgtccttcct ctagtcttaa tcattcacca tttttagtta agaactatga 120
tgttcctagt tcctagacta tgtttcagac atttaagacc ttttgcttta gtatcgtcaa 180
ccatagagag ctctgtcaat gattccttag tgagtctaga aattttgggg aaaaattgag 240
gataatttga ttaagaaaaa tagtgtttag taggttatag aataggaatt cattctgaaa 300
tcgctttaag ttgtgtgttt ttagaaattc actcaacttt ggcacaccaa tgtcaaatgc 360
caaccattcg gntctaatag ctttcctttt tacgaactta tcacctaaag ctataaacia 420
atgagaagt 429

<210> 5634
<211> 395
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 5634

agcttcatga tgatgaatca tgtatgaatt atgtagttnt gatgatgaca aaaagcccaa 60
aagaataaaa ggtctgaacg ttgaaattca aattcaattg tgaagagtca catcttttca 120

taaaatgcat tgtgtaatcg attacatgat tatggtaatc gattaccagt gacaagtttt 180
gaataaaagg tcaagagatg taactcttga cattgatttc ttaaggttat aactcttcca 240
atggttttct tgaccagaca tgaagagtct ataaaagcaa gaccttgact tgcattcaca 300
acatcttctt gaacaacttt tgagaaacct ttaaaccttt acaaccttta caattcttta 360
agaattcttt cctaactcat cttcttcttc ttcct 395

<210> 5635
<211> 338
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5635

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tgaccggcgg tgggtgcaag acgaaacacc aatggggatc aacatgcgcg gagtagaagc 120
aacccaatat tacggaaagt actgtagcgg caaggatggg ggaattccaa gagcttttaa 180
aataagggtg aagggcattn tttccatttc accaaatatg ttgggtgtac cagcagttgg 240
gcaggtgccc aaagccatga tagagtcaac tttgaggccc actccacttc gacagccaaa 300
cccatttttt tgtcagtacc aactttgttt atttttta 338

<210> 5636
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5636

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gtagagatga actagtataa atctttgtaa cttatatgtt tccttggtgt tttctgcttt 120
aaagtgacat aaggttttaa tttgattttg ttttgaaag ttctatttgt tttacaaagt 180
ttctcttcaa atgataactt tgttttgtta aaaaaagact tgaaaatttt ctaaaaccac 240
aattcaatct ctcttcttgt gatatttgca tttacaatat atatatatat atatatatat 300
atatatatat atatatatat atatatatat atatatatat atatatatat taacactcat 360
ctaattgtct aaggtctaata tangagtaga ctgtgccc aaagaaaatg cacataatgc 420

cgcat

425

<210> 5637
<211> 378
<212> DNA
<213> Glycine max

<400> 5637

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atttacctta aaaccattat ttttaattaat aaaactattt attcctattt atttaattac 180
aaaaacctca ttgtttttca aaaactctat ttatttataa aaaaaccatt ttttaatttat 240
tttatgaaaa acgggatggt atagaagttg atgaggaaga agcctagctt gtttcaccaa 300
tcacaattgt accacctcat atgcaaaatt ttgaagaatc tttttttcaa gattttgaat 360
acgagcatag cttggatt 378

<210> 5638
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5638

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agacctcaa tctttaatgg agagggttac cactactgga aaaccgaat gcaaattttt 120
atcgaggcaa ttgatctaaa tatctgggaa gccattgaaa tagggcctta tatacccacc 180
acagtagaaa gagtttcaat agatggtagt tcatcaagtg aaagcataac catagaaaaa 240
cctagagata gatggtctga agaggataga aaacgagtac aatacaacct aaaagccaaa 300
aacataataa catctgccct acgaatggat gaatatttca gagtttcaaa ttgcaagagt 360
gctaacgaaa tgtgggacac tcttctatta acacatgaag gaactacaga tgttaaaaga 420
tctangataa atgcactaac tcatgagtat g 451

<210> 5639
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5639

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gttgctgaaa gcgctaagcc cagcctgctg cgctaagccc cagatgctca ctggaatttg 120
caacttcaag ttgggcttag catgagggtta ggctaagcgc ttgggttttt aaactctaac 180
gtcacgtggg cacgctaagc gcagctctac actaagcctt ccatacaaat ttcaattttt 240
aaaaaaacta aaggttgagt cacttgggtg ttacccaaaa accattagcc tctctgcctt 300
tgctaacctt gagcatttgt gcctttttgc tgcgtgcttg aactgacttg tctgcatctt 360
ccttgcttca ttctgcattt caatcacaat ccaagtaagt ggatacattt ccatttttaa 420
tnttcattct ttaaaccata tgatagatga 450

<210> 5640
<211> 379
<212> DNA
<213> Glycine max

<400> 5640
agcttcaaga aagtcctctc caagagtgc taatgaggct gttcataagg ctgtgagtgc 60
ttattttctg tagttttctg ttcaactgct taattcagtt gagcaagatt tgtaggaaa 120
tttattgtct tgttactgt tattgatgac atcttttatt ctcttctcag gctgctgcat 180
tgaagggttc tgatcatcgt cgcgccacaa atgtcagtgc tagattggat gctcaacaaa 240
agaagttcaa cttccaatc ctcccaacca ccacaattgg atccttcctt cagactgttg 300
aactgaggag ggtgcgtcgc gcatacaagg ctcacaagta agatatgcct tgagttgata 360
ggttggcttg tctcttgac 379

<210> 5641
<211> 411
<212> DNA
<213> Glycine max

<400> 5641
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aaatcctgtg tttgttgaat ggtttgaaat gatcgattgc atgatttgag tgaagtgtag 120

tgagtaaadc ttatgctttg aatgtgcatg cagagattat aagagaaaaga acatggatta 180
 tgatcatgac tgaaaatggt agttagtttg acagattgat tttgaaggta ctcatagacc 240
 acaaccgggt gagggtgtga tctttatttg tgagagaacg actagcattg agtaatgatc 300
 tttgtatgaa tctctaatta tggaatgaat gcatgagtct gaagatgatg aaagtcatgc 360
 ttgattgaac agtctcttat cacaaagctt accttatgaa tgattgattt t 411

<210> 5642
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5642

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 tcatcttcaa ctacgattac atatcttgac tggaacagtg gtttagtggt ttctacagac 180
 gaaaatcaac accaggggag aatgtgtagc cttcaagaca taggagggtca ttttatgaaa 240
 gtaccaatta ttgtattcca gggtcttctt tgtatgcac tagaggtata tgataatgaa 300
 ttgtgtgttt ggccagcctt tggaatattg tttttggaga tctgaactgt tttgtatttc 360
 acggaacacc tgtctgtgc 379

<210> 5643
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5643

tcgaagaggg tctgagaaca tgaaaatttg attatcctgc tttgatgaat gggaagccta 60
 tggcaaatgg agagaataag aatgagggag gaacccatgc tgtgactatc tgtcctatat 120
 ggccaaattt cccaccagct caacaatata aatactcagc caatatcagc ctttttcatt 180
 acccaccacc ctatcagcca agaactca atcatccata aaggccaccc ctatatcagc 240
 cacanagcct gcctgctgca cattcgatac caaacaccac cctctacaca catcataaca 300
 cctactaggg aaggaatggt ctagtaaata agcctacaga attcaccccc attccaatgt 360

catatgctgc ttactcccc attact

386

<210> 5644
<211> 566
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5644

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tttctctcct ctgcgggacc gcatgaaccc ntgttgatgc ccgtcgnagt accctgcgat 120
cctctagatc aacctgccgc atgcaatctt taggtacaca gatatagtat tacgttcttc 180
gagattccag gctctgtag gactgtaata tattgatgc acacgcactc cacatcgacc 240
gattgaaatt gaaaatggca aatcaagcct ggctcttata gactctcaa gactgcccga 300
gaagaccatt cacaagagtc atacctttac agaaacttaa aaccaattta agatataaac 360
acatcttgaa gagttacatc ttttgatgta ttcataaacc cctcctggc agcagacaac 420
aaatcacagt accgactaca caggctttac gtgaaaggac ggacccttcc atctgaatgt 480
gaattccccg tcaaggactg gcatccatac catactatga tgcaatacac ctctgaattg 540
atgaacgcgg aactcatctg aaaccg 566

<210> 5645
<211> 409
<212> DNA
<213> Glycine max

<400> 5645

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gcttctgaag tcaatttcct taatgtgtag atgattctgt cgatttcaa tctacctaga 120
aaagatgctt tttgtcgata gtttgctcct gcagtgtgc taccttgag attctgctgt 180
aatgcgtaat gaccattact atataggatt ttggcttaac tatattcttg gacactaatt 240
tcgtgtatta tctatgtgct gtcttattat taacgaacaa cacatgttaa gatggaaatt 300
ctcaaaagga ccaactcgac tacttttaat cctaggttga gatcgtagca actaaacatg 360
aggaaagtta actttttatt tctttcagat aaaggtcact caatatgat 409

<210> 5646
 <211> 252
 <212> DNA
 <213> Glycine max

<400> 5646

agctttataa caatgagctg ggaccgaatt tatgtcagct tcagtggtag tatgcaaaaa 60
 attctcgcac atagcaccat tcaggcaagt ttctacttcc tgaaatacat tatgtaggaa 120
 tatgatgggg tcttcaatgt cacacatttt atgttttgaa aatctatact tatagcatga 180
 tggcatatta tcaacttaatt taagccttaa caaagtattc tgtattctgt atgcttgaaa 240
 tttgttttat at 252

<210> 5647
 <211> 305
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5647

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 aattggccat ggtaaacaat tacactatca taagtgtgtt gctcttttcc tcattgcttt 120
 tggttttcat gagtgcccaa caacatcacc atcgtattac tttgctttta acagaggcca 180
 gacagctgct tctgcaaata agttgacatt cgagaataaa atcatgtaat gtaattcatg 240
 cccctctatt catgtgaata cttanataca cgcattgcttt gtttgcaaatt ctctgggtag 300
 aggggt 305

<210> 5648
 <211> 348
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5648

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 agagaggtta tttttgttct tccgggtgcc ataacaacaa taatcttggg atattttact 180
 ccaaaacaca aggttgtttt taaaattatt ctgttattcc ttttcaaagt agttttatat 240

ttaaatgttc tttgtgctgt agataaaaac tgaaaatcag agaataaagt tgagtaagca 300
ccagttttca tgggggtttt gatagtagta ccttgggcgg gacatgaa 348

<210> 5649
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5649

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aacggaagct ctcgagaaat tcaaattggtc ataactttta actcggaggt ccgattcagg 120
cgcataatat atcgagacgc tcgaaattga acaacggaag ctctcgagaa attcaaattga 180
tcataacttt tcacacggag gtccgattca tgcgcataat atatcgagac cctcgaaatt 240
taacaacgga agctctcgag aaataccaag ggtcataact ttctactggg atgtccgatt 300
caggcgcata atacattgag acgctccaaa ttgaacaacg gaagctctcc aaaaattcaa 360
atggtcataa cttttcac 378

<210> 5650
<211> 392
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5650

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caaaagccca agagaatgat ttcaagattg agtccacaag ttcaagatca agtgtaattt 120
caagcttcat gagaagaaat caagaagatt caggaatcac gagaaatttg atttctagat 180
tcatgagaag atgaattcaa gattcaagag aagacatcaa gaagacttca caagggaagt 240
attgaaaaga tttttcaaaa aacaaacata gcacaatttt gtttttcaaa agagtttttc 300
tcaaaatttt ctaagttacc agagtgtnta ctctctagta attgaatacc agcttctgt 360
aatcgattac cagtggcaaa gttcgatttc at 392

<210> 5651
<211> 363

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5651

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 attgcccaaa accaagcttg accaatcccg acccaccctg ggcatagtcg gtcagtgaga 180
 acctgtgatg tacctaaaca ggcgagctcc tggcagtcaa cagataaaaag gaacaaagac 240
 cacaaagcaa agaggcttgt ggtggctggc cagttgtgaa ttttgtgtga tatgtggatt 300
 atggcctctg gtaatctatt accaaggggtg ggtaacngat tacaaggctt agaaatgaag 360
 aca 363

<210> 5652
 <211> 327
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5652

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 tttgcaaaga aatttgggag aaaagaataa ataaattatg ctcttcatgc gggaaatcaa 180
 atataaagtg tcttagtaga tgtgggtgga aacaaagatt tcattagata gaanaaaaat 240
 cattaacatt gcatcacaag tagttttggc atgctaggct ccaacataat cacattctga 300
 attcatcttt cggcatttaa attattg 327

<210> 5653
 <211> 383
 <212> DNA
 <213> Glycine max
 <400> 5653

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 gcacatacat gaaaacctct gatgctcctg tgagcacata ttgtggcact tgccagaaaa 120
 tggaagtga acttgacca tcacaattgc tacaatcttt tattgcaaac ttcaacctga 180

atttctctac caaccctgct gagaccatgg ccatgattgc aaggactaga ccaattccca 240
 tcctttgaag ctctgtgagt ttggatttca ttactttggc cacaaaaggg tcgagggcgt 300
 gcctatagat gaagatgaag aatgccacgc ccaaaatgtc gaagctggac atgcttgctg 360
 gagggatttt gaaacttgaa att 383

<210> 5654
 <211> 435
 <212> DNA
 <213> Glycine max

<400> 5654

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 aatctcctta ggaaagacat ttttaaattc ctacaataag ggttgaacac taggagaaat 120
 agaaatagta aactcattag aattatcagt agaaatttta ctgtctttga aatactgtag 180
 attgagtggg tcatgagcag gtaacacttt cctcacttca ctgcctctg caaaataatt 240
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 atcactcttc tttttcatat tcctttgagg agcctcacta ttttctttct cttgatctct 360
 cttttctctc attctgagtt gggcatcaca cacttctcta ggggatagag gttaaagagt 420
 aaacgtggaa gattt 435

<210> 5655
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5655

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 aagataaggg ctcacttcag cttaaagatat gaagaagact ccagaatata agtggactat 120
 gatgtagtta tttctggtaa taagtagaca actatcattg ctttgtgtac ccctataaac 180
 tgtctacatt atatagaatc atgatataga gtttgggaca tctagtctcc cctgccaatt 240
 aatccaatcc tatgattagg aaacatgaca aaattaatta aaatctattc atctaacta 300
 ctctaaattg agatgcaaaa ttgtactata aagggctaac attcaggtat cttcacaatt 360

catccattaa aattgagtat ttcagtcac ttgaacanaa tttcagaaca ttcatcgatc 420
cat 423

<210> 5656
<211> 274
<212> DNA
<213> Glycine max

<400> 5656

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gccaaaaatc actgtagtac actatgacag tcaaagtga atgagtttga acaaaaacca 120
agtgtatcat aacaaaacaa agcatgtgaa tgtcaagtat cacttcattc aagatatgat 180
caatagtaaa gctattgcta ttaagaagat atctacaagg gagaatgttg cacacatgct 240
cacaaaagtt ttaccctatg agaaggtcaa ctat 274

<210> 5657
<211> 338
<212> DNA
<213> Glycine max

<400> 5657

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atacatcgaa acgctcgaaa ttgaaaacag aagctctgtg caaattcaaa cgacaatata 120
ttttaactcg gatgtccgat tgagctccgt aatatatcaa gacactcgaa attgagaata 180
aaagctctga acaaattcaa acgacaataa ctttttactc ggatgtccga atgagtccag 240
taatatatct agacactccg aattgagaat agaagagctg agctaatacca acgacttta 300
cttttactcg aatgccgatg gcgcccgcg tggtttaca 338

<210> 5658
<211> 342
<212> DNA
<213> Glycine max

<400> 5658

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cagcaggtga agcacttcat tggtttgtaa aaaataatga aaaaagatat aaaattggag 180
 tcaggggtaa ttttgtaa at aggagtagta gcaaccaa at aataaattaa aaaagagatt 240
 ttttatcttc aactttttca tttatattga atgcgtgttt tattttgaaa tggatgatagg 300
 tcgaggggtt tgattcagga tcaa atgtat tgggggggtg ta 342

<210> 5659
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 5659

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 atgggttata ttggttgtgc cataaccttt ttttcttga tttaaaaaga aacctttttt 180
 ttctctatat tatttcttaa gcaaataaag tgtatagttt aagaatcgcg atattagggtt 240
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 gtattatact atcatataca aatattctag atagcgatgt aggatcttac agtccgagtt 360
 acaattctcg agtttcaa at ttttaactcc catccgatct tacgaaaatc tcgatttgac 420
 accttgctct atatatat 438

<210> 5660
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5660

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 ttcacccgac gaagacactg acaaaaactt atcttctcct tcttggacaa agtatggcag 120
 gctgggggca tataggttca ttccatcact gtctagtcca agtctaagat ttcttggctc 180
 attcccgaaa tccggatata aaccatcaat cttcttccac tgggagcaat cagccggatg 240
 acagaccatt ccatcagaaa tccttccatt tgcattgcat gtaaggcttt ttgcgtcatc 300
 ctcgtagca aagagacgct tannaccttg gaataattga agataccaca naaccttcgc 360
 tggnggaccc ttgttggagt tntcatcaga aatgctntcc tcttaatcct tgacttt 417

<210> 5661
 <211> 285
 <212> DNA
 <213> Glycine max

<400> 5661

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 cttacataag gctaacagac tctattactt attgtggcca ttccacctcc cctaaaagat 120
 taaacactcc attgggattg ttgtactgtg ccagatggaa gaacagtatt cgtgaaaacc 180
 ccgctcccg cgtcaaactt ctatactcgt gctggattaa ccattaccct aacgtatgag 240
 acatgcttct ctactctgcc ttaagcgtaa cgactatggc tgctc 285

<210> 5662
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5662

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 ggaattatat tttcatacaa tgtatgttgc tctggtagg atttgatggc ctaattgtag 120
 aagcaagctt catgatgatg aacctagcaa ttttgacgat gccaaaagac caagtgattg 180
 attcaagact tcaagatcaa gcatgatgaa tctaatacaa gattcaagat tcaagagaag 240
 aaatcaagaa gcaataagtc aagacttcat atatgataag tattataaga ttctttcaaa 300
 aacaaaatag cacagttttt gtatacaaaa gaattttctc acattcttta agttaccaga 360
 gtgattactc tctggtaatc gattacctgt tatcagtaat cgattaccan ttgtcatacc 420
 c 421

<210> 5663
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5663

agcttaagct ccttcaactg cacaaggctc ttaatatttg aagagtatcc ttgtagaacc 60

Figure 1 displays 12 histograms, labeled x_0 through x_{11} , showing the distribution of the number of non-zero elements in the vector x_k . The x-axis represents the number of non-zero elements (0 to 10), and the y-axis represents the count (0 to 10). The distributions are roughly bell-shaped and centered around 5, with the peak count increasing from 10 at x_0 to 12 at x_{11} .

```
<223>      unsure at all n locations
<400>      5664
```

<210>	5665
<211>	394
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      5665
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 ggttttgtgg ggttgaataa ctatttaatg agactcatan acttgagaca tganactctc 360
 ttcaaggtgg ataccatggc cctgatatgg gttt 394

<210> 5666
 <211> 388
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5666

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 gaagaaagtt atgattatta aattaataaa ctattatatg gtgttttaa atgtatttaggt 120
 gcctaactct ggaactcttt caaccttgac atctttatat ggtgttttaa tacatttgga 180
 ttttgaataa ttggtgaaat taaaatgacg aaaataatgt tttataagct gccgctttct 240
 catacacaaa tttttatctt ttatttttat taaattta ataatgtgtg ttgcacttcc 300
 atgttgccat ttgcataaca gtatgcaact gtactgttag ccattgttgc atttattcgt 360
 ttgggttctc tttggcntat atctatcg 388

<210> 5667
 <211> 267
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5667

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 gggctttctt ttgtcgtcaa tagcattatc ttcattggc tgggtttcgt cattggctac 180
 ccagttgctt cagcttcagg taaaaattat tttcaaattt aatgataagc cttttattt 240
 agttcaattn tgataacgac aaaactt 267

<210> 5668
 <211> 270
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 5668

agctttgcac gtatcagtc agtgtatgga ccatgtcgta gccaaagtgc tcatcgataa 60
tggttccagt ttaaactgga tgcctaagag cactttggag aaattaccat tcaatgcttc 120
ccacttaaag ccaagttcaa tgggtggttcg tgccttcaac ggcacccgcc gagagggttag 180
gggaaagatc aatctcccag tacaaatagg ccctcacacc tgtcaagtca ccttccaaat 240
aatgatatt aaccccnct acagctgtct 270

<210> 5669
<211> 376
<212> DNA
<213> Glycine max

<400> 5669
agcttttgca tgacataaca atagcatcat attcttgaag aggctcactt ttctgagtca 60
tcatcttcta attcagctat atccagggaa tctcaaaca tagaaattga agccgaagtc 120
atggctgaag agcaacatcg acgagtgacc ctggaagatt actcaagtac atctgtgccg 180
cagttcttta ctagcattgc acgaccagag gttcaagcac agaataaac ctatccacat 240
tcattaattc agaacaattt gtttcatggt ctgccaatg aagacccgta tgcatactta 300
gccacttata ttgatatttg caacactgtc agactggctg gcttgcttga ggatgctcgt 360
aaattgagct tgtttc 376

<210> 5670
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5670

agcttcctct ctaagcttct tatccaagac actctcttgg tggatgaagct tttccttcca 60
tggcttattc tctagtggat ggcacctcct ctcaactctt cttctttatc ttctgctaca 120
actccatggc taaaaatcac cattgaaaga ccttattgaa gctcaaagat ccagcctcca 180
taggagcttc tcaagcaagc ttccatcact atcatatctg aagaagttga tataaatgtt 240
aaaaatgagg aagatgttgg cgtgaaagta gaacacattg attgctctta tgtctttaat 300

acttctcagg tatttgccta atttgggtgtt ggaacagtaa ttatattaca taaatgtgca 360
 ttgatctcag actttctttg aattgtgtta tagttgggtg ctactcgtga tgaagtttta 420
 cattgngcac gatcggtggc tcatgaaa 448

<210> 5671
 <211> 352
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5671

agcttccatc aggttattaa agctatcctg atgactttcg aactcgcacc aggtctcaaa 60
 attaactttg caaaaagcag ttttggagca ataagagtgc ctgatcagtg gaagcaactt 120
 gcagccaatt acttgaattg taatttgttg gccattcctt ttgtgtactt gggcataccc 180
 attggggcaa acctgaggcg atgtcagttg taagatccca tcattaataa gtgtgagaga 240
 aaattagcta agtgaagca aagacacgtt tcctttgcgg ggagagtgac ccttatacag 300
 tcgggactaa catcgattcc catttacttc ttttcattnc tttagggccc ta 352

<210> 5672
 <211> 333
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5672

agcttgagat gaggaagtgt tgaaggggtga tacttcctgc ttttattgnt gaccacagag 60
 tggtagcttg agatatgtcg cggggggtcag gagaccttgg ggacgtcagg tgggggtgcta 120
 ttgccccaaa ccaagcttga ccaatcccga cccaacccgg gcatagtcgg tcagtggagaa 180
 cctgtgatgt acctaagcag gcgagctcct ggcagtcaac agataaaaagg aaaacaagac 240
 cacaaagcaa ggaggcttgt ggtggctggc cagctgtgac atttgtgtaa tatgtggatg 300
 gtggcctctg gtaatcgatt acaaggctta aaa 333

<210> 5673
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 5673

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aattcatcag tgggctttcc ttctgtgtcc agcatcttgg gatgttccca gcctttgatg 120
acagctttcc aggttctgct atccagtgat ttgaggaagg ccaccatcct tgctttccag 180
tattcatagt tggttccatc taggattggc ggtctgttca ctggtcctcc ttctttctcc 240
atgttcatca gaatttatct ccctagatct cactctgtga tttcgagtgt ttgctctgat 300
accaattgaa attctgatac tgnngacaga tgctgtaccg gatgtcacga catctcactt 360
cagaacatgc agattagatg cgttcgtctg aacagattac acatgtaaat aacacaagag 420
gattgttacc cagttcggcg caacttcctt acat 454

<210> 5674
<211> 437
<212> DNA
<213> Glycine max

<400> 5674

tagcttctgt attaatataa tatgacgagt atatgtatca aaactttgga cagaacgcaa 60
catcaatggc tgactacatg catatagttg tgactagtta agccagcgac ttgcaccagg 120
catcattaat ttattcctct aaaagcaagg gaaattgaaa atgaacaaaa aatatggatt 180
ccaacaaaca taccacatga acccaagatg agatgagaga gcccgaatc gttggaatct 240
tgcaacttcat cttttgcaaa gcttgagtca ccaaccttta attatataat agaggggttag 300
catgccataa acaatcctaa tgtgaagaag aaggtgcaat acttgccctc gcagagaata 360
tggaagtcct tcttcttctt atatgacaga agagaagatg gtagtctagc ctacgcttta 420
gaaatatggg atctatg 437

<210> 5675
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5675

agcttattct aaagataaca ttaacttatg catttcaatt tttgtttaaa attatatgaa 60

acatcttcta taatcagggtc aaatgaaaaa ccattatttc gaataacttaa atgatcaaaa 120
 gatttttagag ttgcgttccc agaaaggtat tcaaacttca actaaaaaat acaatagttt 180
 acagactata tccatatatt ctcgagcaaa agtggtattg ataatatgaa gatgaagtaa 240
 agcaaatagc cgcgagctac tcatcatatt ccattaagag tgacaacaac tgtacgcgga 300
 gtaggataat cccgatgctc acanagccat ataccctaag caaaatggaa gattaaaatt 360
 tattaacaat tgtgaagcta taataatcta gactcacggt tattactatt aatat 415

<210> 5676
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 5676

agcttgcttc tacaactgtg tctcttttcg atgatgacaa cttctgagat caagatacat 60
 acacacacac tttttgctag tcgatcactc acataaattg ccattctccc gctttgtttt 120
 tgaatgtatg cttctcttaa aatctaagcg attactcatg tgagttcttg atttaatccc 180
 tatttctctc cccctttggc atcaacaaaa agccaaagtg cgtgacatat ttgaagcata 240
 cacatataac taagcctcca taccacattc atggaagaat atcaaccaca tcatgaagca 300
 agaaccatga agtaacaacc ctgaatagat taattataaa accacatagg taataacata 360
 cttaata 367

<210> 5677
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5677

agcttacgca agaattnttt tataaccaac tatttagcat tagcaaaaaa taaactctaa 60
 tttgaagtta gaattgcatt tgcacaaaca aacaacgata tttaacataa tgtcaactac 120
 gtggcattta atgttgacga gtgatttgat cgtttttaaag tagcaacaag ttagccgatg 180
 cttataagat atttattttg catagtaaag ctatttcaaa atggtttagc acattaatgc 240
 atgattaatg taattgctga agcaacatat gaataaataa aataacacac tttctcttgc 300

catcattttt ccttcaccct ttgtcaccct gctccctggg catactacca tactntgntt 360
cgtnccctatt cattctcctt catatcacac a 391

<210> 5678
<211> 418
<212> DNA
<213> Glycine max

<400> 5678

agctctgctg ttcaattatt gtatataatt tatgaatata ggggtgaagaa ggagatcaaa 60
attagtgttt aaaggacatt aaagactcga tgaacataat atttaagata ggatttaaag 120
aacaataatg attatattat gatatgacta acaaacatta tacacttgcc ttcgcataac 180
attgtgtgtc aagggtacatt cttcactaat ttcatttggt acaccttaat aaaaaagcaa 240
agcttttaat aatggcttct ctccttcaac tgcgttcaaa taagcactca atattctaatt 300
tcgaatatgc agcatcaaca attgcttgct gcaatgtctc ttaagtgaag tgggttaaagg 360
tttttttttt actactgaaa atggaatgtg gatgcatatt ttatcctgag acatattt 418

<210> 5679
<211> 263
<212> DNA
<213> Glycine max

<400> 5679

agcttgtctt tggtttagac atgtttggat ttgatttggg actttagga tttgatttgg 60
gcaagatttg atgagaggaa ggggtgatttt cgaaatctgc acttatgcag aatttttgc 120
gtaaaattgt gcagcagaat tttgcacaag tgcagaaaaa tgcttgtgtg tggttggctg 180
tggaagtct agtgcagaat gagttctgga tgtttgctag tatatcccaa cgggtcaaat 240
gtaggcttat gtactagaga ctt 263

<210> 5680
<211> 376
<212> DNA
<213> Glycine max

<400> 5680

agctttacag cagatttttag taatgacct ctaacctaga attaaaataa cttaatgcca 60

ttaacctagg gaattaaaaa aaacttaatg gctgagtgtg actgaaattg tggcaaccaa 120
aagtcacccc caacagccaa caagtcagcc accatttggt ctcccaaaag gctgatgcct 180
attgttgcca atggggccctt attacaactt gaactaaacc taactaaagc ccttttagtt 240
gattaacca aaacatattt ttggcagcca actctcaagg attgggcatt attagacaaa 300
ctaacactct aaaatgagac aaggtggggc atttagtcct cctcatttgg catgaacact 360
cacaccttgg actttt 376

<210> 5681
<211> 366
<212> DNA
<213> Glycine max

<400> 5681
gcaagcttgt ggttgtgtg ttagtattct atccttggt tagatttcac aaagtctctt 60
aagtcttcat tttgatgttg cacaccaa atctctcaagg acattctcag ctttccactt 120
gtcatctctg tgtgtggcag catatggaaa gtgagatgct atcaacatca gtcttcta at 180
gtgtcctctg tatgtgtggc agcatatgaa agacatgata ttgtctttga ggtatagtag 240
agaacaatta tgaacttcag tgattaaagt caaaatcttc atcatcttga tgcagactct 300
gatgaaactt cattctgatc ctgtatgcgc attgcaacct ttgaaacatc ttatatgtaa 360
ggccat 366

<210> 5682
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5682

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caatacggac atggctcccg atcggaacca gcttcagagt atgactaagc gagagcatga 120
gtccattaag gaatatgcc aaagatggag agatctcgca gcccaagtcg taccgcctat 180
gatggagagg gagatgatca caattatggt agatacgtta cccatattct actatgaaaa 240
gctgataggc tacatgccag ctaactttgc ggatctcgtc ttcgccggag aaaggattga 300
atccggacta cgaaaaggca agttcgaata tgctgccaac atgggtcccca acaacaacag 360

aagagcccca gtagtgggtg cgaggaaaaa ggaaggagac gcccacgagg tcaccaccgc 420
cccgacgtgg atgaaagcac ccanaatat 450

<210> 5683
<211> 366
<212> DNA
<213> Glycine max

<400> 5683

gagcttgttt tgatgcctga gaacacaaga gtgggtgcat attgtgtgaa gctacttttt 60
ttggccagca atcagctatg agccacgcta taatagtttc catacaccta tacgtgtagg 120
aattttgttc atcacggaca tgtaagtgtga gaataggtag caaaatacct ttggcaattt 180
acactttggg tatggttagca aaatacttgg atgtatgtac atgtaatttc tggtagtcaa 240
aatgtctcac aaaaatatat atatatgttg catgttatgt aaagaaatac cttacaaaga 300
tacctttgaa tttgaatgca attttagtca gcacaagaat atatacttga atttgcatgc 360
ggcttt 366

<210> 5684
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5684

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caaatcattc tcaaacactc atttcataaa aaacaatcta ctgcatatca ttttcaacca 120
attcactggt caaaccagct ttttgtacaa gcaaacaact caaagtacta aaatttaaag 180
aactgaaaca taaaaactga aattttaaag actgaacata aatcataaaa taattgaaaa 240
taaaactaaa tgttcaaaat gcacaaatth aaatgtcctg cccctgtggg tgctcctgtg 300
catgctcatt gagatccaac acctgagcag ctgggtgaatc ctgagggata ggctactcta 360
gctcagatgc tgnngcagat ggtatggcat catcacgtat ggggtgctgga gatggctctg 420
ggatctgggc tgtggaagtc tcatcctcct aagccacgt 459

<210> 5685

<211> 448
 <212> DNA
 <213> Glycine max

<400> 5685

agcttaataa atctatatat ggttttaa atgcctccca tatttggtac cttagtttc 60
 atgggattat ttcttcattt ggttttgatg aaaaccccat ggatcaatgc atataccaca 120
 aggttagtgg gagtaaaata tgttttcttg ctttatatgt agatgatatt ttacttgac 180
 ccaatgatcg gggtttgcta catgaggtaa aacaatttct ctctaagaat ttgacataa 240
 aggatatggg tgatgcatct tatgtcattg gcattaagat tcatagagat agacctcaag 300
 atatttttagg tctatcacag gaaacctata ttaacaaaat tttagatata ttctgtatga 360
 aagattgttc accagttgtt gatcctattg tgaaagggtga tagggttaat ttgaaccaat 420
 gcccaaagaa tgactttgag agggaaca 448

<210> 5686
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5686

agcttcaaca tcagaccact tccaggggtgc tggaactact tcacatggat ttgatggggc 60
 ctatgcaggt tgaaagcctt ggaggaaaga ggtatgccta tggtgttgat gatgatttct 120
 ccagatttac ctgngtcacc tttatcagag agaaatcaga aacctttgaa gtattcaaag 180
 agttgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatc aggagtgacc 240
 atggcagaga atttgaaaac agcagattca ctgaactctg cacatctgaa ggcactc 300
 atgagttctc tgcagccatt acaccacaac agaatgggat agttgagagg aaaaacagga 360
 ccttgcaaga ggctgctcgg gtcctgcttc atgccaaga ancttctat aatctctggg 420
 ctgaagccat gaacacagca tg 442

<210> 5687
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 5687

agcttctcca tatattatc cctgaatcg tgacttccgt ttgaaaagtt atgaccattt 60
gaatttctcg agagcattcg ttgttcaatt tcgagggtgt cgatgtatta tgcgcctgaa 120
ccggacttcc gtgtaacaag ttatgaccat atgaatttct caagagcttt cgttgttcaa 180
tttcaagcgt ctagatatag tatgcgctg aatcggactt ccgtgtgaca agttttgacc 240
atgtgaattt ttcgcgagca gtcgtggttc aatttcaacc ttctcgatat attatgcgcc 300
taaacggac ttccgtctga aaaagtatga ccatttgaat ttctcgagag cattcgtttg 360
ttcaattcaa gcgtctcgat gtattttgcg cccgaatcgg acttccgttg acaatttatg 420
accatctgaa ttt 433

<210> 5688
<211> 416
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 5688

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agaggcttct ttgagaagct aacgctntaa ctagtaacac ccttttaata actaaactca 120
cctccttaaa aataattacg gataaaaata acacaacaaa tataatcaaa catcaaacat 180
aattactaat aatatgtaga tatatatatc aggggtgttac acgccatatg atgtgtaaag 240
taagggaat ctcttggttct tgtttattct gaagttaatt tagcttttat acctaaagat 300
acttgatgga tagattctgg tgctactact cacataagtg taaccatgca gggttgcctg 360
tggatccgat tgccaagtga tgatgaaaga ttcataattg ttggcgatga caaaaa 416

<210> 5689
<211> 297
<212> DNA
<213> Glycine max
<400> 5689

agctttaacg aatgtaatac acatcttctt tattctttgt gattcttgac tccatttcat 60
tgaaccgcat atccacttgt aattccaaat tgtcaaacct ctcaccaaca aaggtttgaa 120
gaccatcaaa cctgtctaaa atctttgaaa ggagagatga atcctctcca tcatgtcctt 180

cttcaccaac atgtcgagta cctttcttca cccaagaacc atcttggtcc ttctgataac 240
 aaaaagatgc tatgactgaa gagcctataa gataagatct cttgatttga acataat 297

<210> 5690
 <211> 244
 <212> DNA
 <213> Glycine max

<400> 5690

aacttgtatt gagatcttgc aaccgccgca tttagatata gatgcatacc atgggccagg 60
 gtatttggaa accatgatga tgcttgatta tgagtggcca ttgatgtggc ggtctgctcc 120
 tgtaatacct acaaactact tgtactcata acacatcttt ctattcacgt acccaacatt 180
 atatttatcg atagagtaat taccctgata ccacctgaaa tttttttcaa atttcacata 240
 atat 244

<210> 5691
 <211> 259
 <212> DNA
 <213> Glycine max

<400> 5691

agcttctcct ttcttttcta taaatagagg aaggagggaa gaacaaaaat gttcaaccct 60
 cctggatatct gagattcact gaaaattagt tagaaaaatt gtttccatga agaaaatcca 120
 agccgaggcg cttccgtgac gttttcgtgg gcgattttgc gaagattttc aaccattctt 180
 cgtcgttctt tgttcgttct tcgacgttct tcgggcttca tcccggaagc tcccataatt 240
 gaatctttca tttcattct 259

<210> 5692
 <211> 332
 <212> DNA
 <213> Glycine max

<400> 5692

agcttgtggt tgttgtgtta gtattctatc cttggtttag atttcacaaa gtctcttaag 60
 tcttcatttt gatgttgac accaaatctt ctcaaggaca ttctcagctt tccacttgtc 120
 atctctgtgt gtggcagcat atggaaagtg agatgctatc aacatcagtc ttctaattgtg 180

tcctctgtat gtgtggcagc atatgaaaga catgatattg tctttgaggt atagtagaga 240
acaattatga acttcagtgt ttaaagtcaa aatcttcac attttgatgc agactctgat 300
gaaacttcat tctgacctg tatgcgcat gt 332

<210> 5693
<211> 452
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 5693

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aaaaaatgc acccatatac aatcaaggca gcttcgttac ctagattatt tacacgtact 120
tccaaggtgt atttggtact tacatcacac acctccttg ctaaattcac atacatgcat 180
actcaaagca ttttggggta ccaaaaattg cacatgtgca catcttggtta tttctaatac 240
ctatacatac acaaacttca tgatgaatct tgactatcta cacaataagg tgctacattt 300
tatgctcttt tcaagttttt gctacctaaa gccgcatgca aattcaagta tattttcctt 360
tgctgactaa aatngtattc aaattaaaag gtatacatnt tttggtaatg tatcttcttt 420
acataacatg caacatattt atngtatatt tt 452

<210> 5694
<211> 441
<212> DNA
<213> Glycine max
<400> 5694

agcttgaggt tgatgttgct tgcggacatg ttcttgatgg tttttattca accacttctg 60
cttacaaaag gctaacaaaa tctattcctt agtgtggcca ttccacctcc caaaaaatat 120
taaacacttc atttggttg ttgttctggt tcagatggaa aaacagtatt tgggaaaacc 180
ccgctcccg tgtcaaattt ctattctcgt actggattaa ccataaccct aacgtttgag 240
tcatgcttct ctactctgcc ttaagctttt cgattatggg tgctcttcga aagaagctac 300
catggctttg attaacaatt tcacagaata atgtctgttg tacgtgcttt ttattttcga 360
cgtcgtgaag actgtgcttt tttctgttgt ggcttgaaag gaaacatgga ccaatagaaa 420
taggcttttt ttttcattat a 441

<210> 5695
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 5695

agcttagagc taattcaaac gacaataact ttttactcgg atgtttgatt gagccccgta 60
 atacatcgag acgctcaaaa ttgaatgttg aagctcgcag caaattcaaa cgacaataac 120
 tctttactcg gatggctgat tgagtcccg aatatatcga gagctcgaa attgaatggt 180
 gaagctctca gccaatcaa acaacaataa ctttttactc ggatgtgtga ttaagtcccg 240
 taatacattg agacgtcaa aattgagatg ttgaagctct cagcgaattc aaacgacaat 300
 aactcttttc ctcagatgtc tgattgagac ccgtaatata ttcgagacga tcgaaattag 360
 att 363

<210> 5696
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5696

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 acaagacaac acttaagtta atgaacttat catttcctct cttggggttag tcttcttcgg 120
 catatattaa ntatgtttat tgcattatag ttcgcctcct gtgtaacttg taaccaacaa 180
 tatgccagaa tgaaccataa ctcataagga atcaaaagat ataaagcatt agcttgattc 240
 atttattact ttggcctaag ctgttatggt gtataactac aaaacaaaga tgaaattatg 300
 taattgaaaa tgacacaaat gtaaaacatg acctcctata aagctcacia gatttggtta 360
 tataagcata cacagttntg atgttgacat attccatgaa ctg 403

<210> 5697
 <211> 440
 <212> DNA
 <213> Glycine max

<400> 5697

agcttcccag atccgatcat ggaaggactt gtcaactgcc ttcattaggc agtaccagta 60
 caatacggac atgggtcccg atcggaacca gcttcagagt atgactaagc gagagcatga 120
 gtccattaag gaatatgccc aaagatggag agatctcgca gcccagtcg taccgtccat 180
 gacggaaagg gagatgatca caattatggg agatacgtta cccacgttct attatgaaaa 240
 gttgataggc tacatgccag ctaactttgc ggatctcgtc ttcgtcggag aaaggattga 300
 atccggacta cgaaaaggca agttcgaata tgcttccaat gtggccccc aacaacaatag 360
 aagagcccta gtagtgggag cgaggaataa ggaaggagac gcccacgcag tcaccaccgc 420
 cccgacgtgg atgaaagcac 440

<210> 5698
 <211> 439
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5698

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 agtacgacag tcaccgcttt aggagcgttg tacaccagca gcgcttcgaa gccatcaagg 120
 gatggtcgtt tctccgggag cgacgcgtcc agctcagga cgacgagtat actgattttc 180
 aggaggaaat agggcgccgg cgggtgggcac cactgggttac tcctatggcc aagtttgatc 240
 cagaaatagt ccttgaattt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300
 tgagatcctg ngttaggggt cagtggatcc cgttcgatgc cgacgctatc agccagctcc 360
 tgggatatcc gatggtgttg gaagagggcc aggaatgcga gtatggccag aggaggaacc 420
 ggtctgatgg gttcgatga 439

<210> 5699
 <211> 436
 <212> DNA
 <213> Glycine max
 <400> 5699

agcttgtgta ttagggagag tatttttagca tggaaaggcta attaaggtga agtggatcag 60
 agagagagat gaaaattcat gtttttttca tttctctctt cgagatcgcc agagaagaaa 120
 tcaactaatg gccattaga gtggagatat gtgggttaatt agaaggaggg gaacaaatca 180

aggatgaggt gacaaggcaa ttccagcaag tgttttcaga atcaaagttc acacgacctt 240
 gtttaccagg tggtgagttt aaacaaatta gccaggtaga tagctctttt cttattactc 300
 cttcttttga gctggagatc aaggcagcgg tttggagttg tgatggtgat acaagtcttg 360
 gccctgatgg gttcaatttt caattctcac ggcgtgttgt gaattttaag gcccaagatt 420
 tgttgtatgg tgcattg 436

<210> 5700
 <211> 321
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5700

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 ttataatga acaagttgag gattaaaatt aactaaaaaa ataattattt tagcctgcta 120
 catcaactta atggataaaa tttgtaagtt ttttaaaaat tagaaataaa atatgtcaaa 180
 ctaatttggt gaggataaaa ttcctctaga aatatatcga aggagaaaag gacaatcatt 240
 ttaacattcc atgtcaactt aaaattgaan caaaataaaa aggcgaaatgt aaaaatgaaa 300
 ttaagttttt ttaaaaataa c 321

<210> 5701
 <211> 229
 <212> DNA
 <213> Glycine max

<400> 5701

agcttataat atatcgatac gtcgaaatt aaacatcgga gactctcgga aaattcaaatt 60
 agtcataact attcacacgg atgtccgatt catgcttata atatatcgat acgctcgaaa 120
 ttaaacatcg gaaactctcg cgaaattcaa atggtcataa cttttcacac ggagatccga 180
 ttgcgcacat aatatgtcga gaagctcgat attgaacaac gaaagctct 229

<210> 5702
 <211> 324
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 5702

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gcatatagag ctacagacat cttggaattg atacatacgg acatttgtgg gccatttcat 120
gcaccttcac gaaatggtca acaatatnt atatcattca tagacgatta ctccatatat 180
gcatacttgt ttcttataca tganatgtca cagtctctgg atgtgttcaa aaaatttaaa 240
agtgaagttg ataatcaact caacaaaaaa atcaagagtg tcagatctaa ctatggtggt 300
gaatactaag gcaaataataa cggg 324

<210> 5703
<211> 208
<212> DNA
<213> Glycine max

<400> 5703
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cgagaggaga cacgttcttc gacaggagac atgttctggg gtttttagaga ttccagtttt 120
tactgtggat gcgcattgct cacgtagaat gaagtccatg tcatgcaagg ttgtttccgc 180
ttcaatctac tatatcattt cctactga 208

<210> 5704
<211> 511
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5704

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cacacgaang tcataggtac gcgataagta tagatgacct cccactctcg taggatatga 120
tgccattatg ctttctacga taacacctgg cataaaaggc gagtggagga acgcccctgc 180
atttacgcat cttagcatat gtgtataatc gtttacggac tttaataatta ctctataata 240
aggccctaca gctttaaatg gatgcatctt cgttcacgct tcattgttta ccgcatctta 300
cctgaagaat cttggacctt tattactctg atcctggtgt gtancctatc tgatatgctt 360
acatgtatac ttctttttct aaaaagttga tccgttgacc acctcgctct atgactatta 420

cctgtgcccc tctatagact actctgcaat gtatcatccg gggataatag atgctgtgtg 480
gactttctgt aaatagacga ccgtcgccat g 511

<210> 5705
<211> 267
<212> DNA
<213> Glycine max

<400> 5705

tgcagagagt ctgtgatagg ctgcgaaaag tgtgaaccac atcagatcag aacgtgaacg 60
agaaccttct ttgctttgct tttttttctc tatctctctc tttctttctg tgtgtctttc 120
ttacaccaaa gattatcttc tttattttat ccaaacctga tcatctaaga tgcattgaggc 180
agcaaactcat taatctttta ttaatttatt tattaggtgc tttggatttt ctttcttttg 240
tgtgctttca gcactaccaa tgatgat 267

<210> 5706
<211> 551
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5706

gcattgaaat cgtgcccctg cgatctacgt gacactatat aagaccttat gcttggtgca 60
agcttatcgt ctatatcata aacaactcca tcgtctaagg tatactatgt gactaactac 120
gtgaggcata cctnctgtgc acggcgatga ctacgcttct cactgaacct ctcgttatct 180
ctattttag tagtactggt ctctggtcc gctcacactc tgcgtacaat aaatatcgtc 240
ctcatagttg ccttaaattt gaatcatccg acaaagctac tgctgctaaa gggtttcgat 300
tcagatgagc tactataacc cggattatct cgtgaagtgc attaccaaga taataccttc 360
tgctccttac ttatacgacg tgaactgcga tccagtattg gttcctgcag atgaatagtg 420
actggctttt tactatcgct gactagaggt gaatgtgatg actgacaaag aatatcttac 480
cgagatattt ctatctacag gtattgaatg cccatctttt gacaatgttc aagacgcctt 540
tattaaaacc t 551

<210> 5707
<211> 261

<212> DNA
<213> Glycine max

<400> 5707

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ataagaacca tgttgtgaag ctgctcagtc ggggtatttt ggcaatactc ttgttcaatg 120
ccaaatatgg ctattgacca ctatgacatc caataagaga gtgaccaatt agatagagga 180
gaaggatagg gcgaggggaa ttatgtggga caataaaatg ccaatctaca aatagcttat 240
tgatagtgat gaacaagact g 261

<210> 5708
<211> 597
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5708

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cttatcacia catgcagnct ttgaaatcga gttcctacca gtcactatan acaacttaag 120
ctacactaac tatatatgcc acgtctaate tacgatacca ttgtactgaa gttgtctgac 180
cacaatcgat tcaaacattg ttgtggneca agtataatgt atatcgacac ctctagctct 240
ccttcttgca tcttactcat gctgccccaa atgggtattgc tgcacaccc atatgtttaa 300
tgtcaagaat gtataccag tgctctgtac caataaacgc gaattgatca ttatgatcag 360
atattacatg gaatcgatga aacatcttcg atgctttcat tgagtcccat atctctgagc 420
gaatgcataa gacattgaac tatcgaatta tacgacccat gaagacactt atttacttgt 480
aaccacaaa agtgtgctgct tgaacatggt accaatctga acgagacaac gttttactct 540
cagtcgtatt ggtccttgca ctaacatacg ctggagatta gaacaatate tcttacn 597

<210> 5709
<211> 197
<212> DNA
<213> Glycine max

<400> 5709

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aagataagag cacaagtatt agagtcacag ctgaaataag ctagtaagca tgacgaacat 300
 caaggaagga tcatcaacca aaacctcaca gtcattgttt cactcaaact caagtgttta 360
 ggcttattcc ttcataaaca accaacacaa gttccaacct ttgcatttca tctcctatca 420
 taca 424

<210> 5713
 <211> 466
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5713

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 gtatctgagg atcacttgaa attagtgaat aaaaatcgtt tccgtgaaga aaatccaagc 120
 cgaggcgctt ccgtaacgag tctgaaacgt ttccgtgggt gattccgtga agattttccg 180
 ccatctatcg ttcggttctt atcggttctt gtcgtcctgc ggtcttcaac cgataagttc 240
 ccgaaatcga acttttcaat tcattctatg tacccttggg ggttcccact tgtttcgcgt 300
 acttttattt tcatttcatt tactntctgt atcccccttt gacgtgcttt agtcatttat 360
 ttaagtcatt gtctcgcta atcacaaaat ataataaatc tccaccgatc atttaaattg 420
 taacatttgt taatttctgt taaaatgaaa tccgaccgtt cgttca 466

<210> 5714
 <211> 447
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5714

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 gttttggtta tgcattacca gtgtgtttga acgttgaaat tcaaattcaa atgtgaagag 120
 tcacatcctt tcacgaaaat gctntgtgta atcgattaca ctgatttggg aatcgattac 180
 cagtgatagt ttctgagcaa atcaaaagat gtaactcttc aaatagtttt tgactctttc 240
 aaattgggtt aagtttttct aaagggtcata actcttctaa tggttctctt gaccagacat 300
 gaagagtcta taaaagcaag actttgtttt gcatntata aacatctttc caatcattct 360

ttagacaaca aacttttgcc aattgctttc tgagtctctt tgaacttctt cttcttcttc 420
 ctttgtgaaa agctntctaa agttgat 447

<210> 5715
 <211> 418
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5715

ngatcaaaac aattatctaa tcattccaat ccactcaaat catacaattg cttattcaaa 60
 tcatactcaa acactcattt catgcaaaat aatccactgc atatcatttt caatcaattc 120
 actgttcaaa cacacttttg gtacaagaaa acaactcaaa gtgctaaaat ttaaataact 180
 gaaatataaa gcaaaactaaa aagcaactaa atcctgataa actaaaatga tcatgctttt 240
 cacaaattaa actaaacaca atttaaacad cctgctcata ctatggctga tgttcattaa 300
 gatccagtgc tggaactgct gatgaatcct ggataggctg ctttggctgc gtgactgggtg 360
 cacatggatg ggtctcctca cggatatgta cagagatgg ctcatggatc tgggtttat 418

<210> 5716
 <211> 365
 <212> DNA
 <213> Glycine max
 <400> 5716

tctagcttct taaggaagtc ttctcaagaa agcttctcca ggaagctacc tctcctataa 60
 atagaagcat gtggtacact tgttgtaact atgatgaatg agagtcttgt gagacacaac 120
 tcaaagatca acttctctcc ctttttcttt cttcaattta gtgctcccc ctttcatctt 180
 ctctcccttg ttcttttctt ccattgaagc atcctttcca agcttcttat ccacggctca 240
 tcttggtggt gaagctcctt cttccatggc ttattcccta atggatggcg tctctctcac 300
 ctcttctact gtggcttctg ctacatctcc atggcggaat atcaccatta aaggacctca 360
 ttgaa 365

<210> 5717
 <211> 589
 <212> DNA
 <213> Glycine max

<210>	5718
<211>	417
<212>	DNA
<213>	Glycine max

tagcttcacc	ataaaaaaatg	gtgtcatccg	ctttctgttc	gatgctgac	ggcacataat	60
tagcaccaac	cagatagcct	ttgaatagat	tattctcctc	agccctgctc	ataacccaat	120
caaaccttct	gcgagagata	aacaagaggc	gactaaggat	ccccttggcg	aatgcccttt	180
tgagggataa	aatcagaatt	cggacttcat	tcccaaaaca	gaaatagagg	cggatatgac	240
acatcctttc	atccacttaa	cccagtgcg	actataacct	gttctcccca	gcatataaaa	300
canaatagct	ccagataccg	aatcatatgc	cttttcaaag	tcaaccttga	acactangca	360
tgatcgattg	cttctcttat	cggcatcaat	aaccctat	gctatgacta	cactatg	417

2426

BIOGRAPHICAL

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<223>      unsure at all n locations
<400>      5720
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<210>	5721
<211>	444
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      5721
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2427

atccagcctc catagaagcc ccac

444

<210> 5722
<211> 362
<212> DNA
<213> Glycine max

<400> 5722

acctgccgca tgcaagctag atttgcgagt tgatgttagt cttactttca ctttggttat 60
tactcatttc attcaaggaa acctccaaag aataacgtca gattgattct ttttgattat 120
tttattcaaa gatattttga ttattttatt attatttcgc tttttttggt ttaaccgagg 180
ttacaatgta aatgatcggg tagattttgc tttacagtg attaaacgag attacaacgc 240
acatgatcga ttgacattca ttttatcatt tattacgca gataacgggt tatacgatcg 300
gctaaagctt ggtaaaaacg gaagaagata taaccgaaca tgaacgagat gaagaccaa 360
gc 362

<210> 5723
<211> 521
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5723

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cgaacataaa ctaacttagg tggcccgagg caaattaaag ggaactgttt attcttaatc 120
gaggaaaggc cgtatcgac ttcagaataa cggttaattca tactatacaa tcggatcgcc 180
atttatagag ccatgatacg ccatatttag gcatgtatgc tcgatgaccg cttaatcgag 240
taattgttgt acaaccattg tgtaagacaa caataggatg ggggcaaaga ggctcgatgc 300
aacgactgat aacagaatct aagtatatat gaagatcctg ccacctctct attaaagaag 360
catacactaa tttgtctcaa attgctgcgg gaggggccag tcatagacca tcatagataa 420
aagctcatgg gaattataaa ccaacggata gcgttactgt tggagtgaca aaaactaaaa 480
gggatcttat agaatatggg ggctagggca aatatcaaaa c 521

<210> 5724

<211> 472
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5724

agacatctga ggcattgcaag cgttgccaaa atagcttaca tcagctctga aaaatcattt 60
 nttgaagagg ataagtcata agtgactggc taatcagctt cacagatata catgtatata 120
 taacaagtag taacaatgtg ctttacctgg actttatata atgaaacaac ttccacaaca 180
 acaccaatgg acaaaccaag ttcaactaca acaaactaat tcagcttcac ctggagttga 240
 tataatgagt aatggcttta gaagaactca aagccaaacc aagttcaagt acaacaaatt 300
 aattaatctt tttctcaacc aaagtatgtc aaactacttg ttggatatta aaagtgttag 360
 ttattcatgt gacaggcaaa gagagttgtt agacaataat tcttgtttaa aactgtcaat 420
 gaagtattgc ggcattaatt tgatacacac tgatcaataa caatcgatac at 472

<210> 5725
 <211> 572
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5725

atacttccac gttcntcna cctntaatct aatcgtaata actntacttc gaacanatnc 60
 aaaaaaacac gagatgaatt gatgaccttc agacaccggc actatnaaca tgaagctgat 120
 gctgcgacag atggagacaa tcaagtgtat gatgtgattt cacaccatca tgcggcacag 180
 acacggcatg cacatctgaa ttcgatcgtc ttggccttga cgagctgaat aggcgagaaa 240
 gtccagcccc cctcaagatc atagataatg ggtgtgatgt taccttatat catgatacga 300
 gcgctgacag actgaaagat gggaggccga cttttgttgt gactacttaa acttcctaga 360
 gaaaagcact gatcaattgc atagtacgtg gaaagaaagt agaattctctt ccacgaacc 420
 atcacatgag tgatcgcatc ccaagcaata acacccatat agggaaacgga actccaaact 480
 ttagtcacat cctctcgggc atgactcatg gacggaaaac agtttcagtg cacagttgga 540
 tagcgtaatg aatgaagcga ggacaaacct cc 572

<210> 5726

<211> 537
 <212> DNA
 <213> Glycine max

<400> 5726

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 atccatccga cttaattata acttaacttg aagagatgca ctgactaaag ggaggagtta 120
 ccatccatgt gtcacgatt acacattgtc agaatagaat tccaatatgt aagactcgtg 180
 tatatttcag ctgtggtaac tgagacaact tcatggaatg ggatacatgc cttacacaac 240
 ttatagataa acttttatca gctgtttttg caagagattt ggcgcactgg caatctgatt 300
 acatcctctg ttaacagatc actcgatgga gaatcctctg cacacatatt ataccttgca 360
 tatattggcg gagactcttg ttgttccacg tggaattccc tccgtgaagc ctagacactc 420
 tcttgaagac gtttcttgta tgctacagga tcctcggcgg tgaattaaca cttaagacga 480
 gctcgatgat cttcgaataa acttcgtaca ctcatgacca cctcgcatgc tccatcg 537

<210> 5727
 <211> 613
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5727

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 cntctacaca cgcgcgagag aatgagatcg atagcctngc naatacgtga cactatagaa 120
 tacacacgct agangatttg tatacgaata tcaacacact actgcttctc ttttatcaca 180
 ctagggcagt agattacaca aatgtaacac tctaataatcg ctaaatcgag tgacgctgaa 240
 gtactttctn tgtcttgtag gcggagggca tagactatct aactcaaaag tcaactcgac 300
 tgtactgacg aaccacatat tatgcaaacg tccatctaaa gccgttttat gatacagcta 360
 aggccactga taatactgcc acatcatctc aaagtccaat actggagaag caaccactc 420
 gaaatacata cgagctaata ttcagtcgcc aatccgtatg gcgcattcat ttgtaacacg 480
 ctctcttaac actaaaaatc tttaaagctg gacaattgaa tgacaaggat ctcatctcag 540
 taaaaatgat acgaaacaca tgagccaatt gcataaagta taaaagctca tgaaacctgc 600
 ttaatatcga atg 613

<210> 5728
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 5728

tcacctgccg catgcaagct tcccttatcg atattgccgt atgcaatact taacatcagt 60
 ataaacaata gatgtcagtg gatcttaggt attccacctt tccatcaagc attaatgcct 120
 tttttggagc acatgcatta atatctgatt aacatgtgtt catgctatct gtagaaaatt 180
 gtatatcatt gtacattgta tcaatatttt tctcaagatt ctctagatac ttttctcaag 240
 acatcacgat tgacaagtca caagtataca caatttataa ataaaatggg gaaaggcatc 300
 ggaggaaacc gaaaaagtta cctaatagat ggacatttta tacagtcttc 350

<210> 5729
 <211> 460
 <212> DNA
 <213> Glycine max

<400> 5729

tgaacttgcc tgctaagcga gagtgcgcac tgagctcgga ttacactctg agcgagctgt 60
 ccaattcttc caactcttct tcaattcttg catcaattgt cctctaaagc acttgaattc 120
 ttcttctttc gacttctgct aataaaaaat tgcaaagatg ataatttctt cgttatttca 180
 ttcaaaacaa tagtaaagtg aacaaattac aatcattatt agtcaaaatt gactatcaag 240
 ttaactcaga tttcgcagat atcaactcct ccaaattaaa acatttgctt gttctcatgc 300
 aaaagacaag ttctgagtgt gccaacacat gagataacta tgaatccatt aaaacatttg 360
 tcttgatctt gcgatggaag catgaacgaa tacacatgga gatgaaaaat gttatcacat 420
 aaaacttcat caatgcaaaa tacaacactt catttctcac 460

<210> 5730
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5730

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tcaaatttaa ttcttcaggg tgacagcata taatgaccaa tagcaaacia tatakctgaa 120
ttcaacaaca tgacccgcaa ttccagagag ctcaaaacac ttgtttttat tggtttttaa 180
ctcttccaac agagaagaag caaaactttc atcaatgttc ccagtatctg catgccaaagg 240
tcccatgacc ccggccaaat tcttcattcc agaagcaaaa cgcataattca gttcattgtg 300
ectaacagga cttgcagatc caactggnga agtggatata acagagtttg ccattggact 360
tcttgggtaa gacatcccg aaccatatgc aggtattcca taataacat gaggagtga 420
gctgcctgat taccac 436

<210> 5731
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5731

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aatgtaatgc aatttctgta atgatattga taagtagggc ctattagagt aggaaggcca 120
ttatagcatg ttgcccagag taccagtata ttgagttatt ttctctaacc aacatgtatt 180
atgcattttg ttaggatgga cccaaagagg tccaaaagaa ggatgtttta gtggctcaaa 240
gattataaaa gataatgttt ttattttata aattatagtt ctttatttaa ttatatataa 300
aataacatga tgttgagact tggataatta ttatccattg attaaatgtc ccttagatta 360
tatatgtata ttcatcttta cctattatca ttattaatg aaatatcaag ttatcttat 420
tctctgtata gctgtatg 438

<210> 5732
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5732

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taggattcaa tgctttgtgt tgattttgaa agcctagcat ctatttagac acataacaat 120

aatatgaata caaattatta agataattaa tactataatt tagatgacta accttacctt 180
 anattcgatg cattggcggtt tagcaacaaa agctttccat tgccccttgg atatgaatgg 240
 atacatttgt ggaggatgct catcaacact accattttca tcataaacat tattctttgt 300
 taagtagggt ctaaaatttc tacaaagttt atttgcttct ttaagaaccc atctttgaca 360
 gctattatca acaatgaatg ttgtctacaa aattgatctt aattgatcaa gtatgtttgt 420
 ataagaatca tanaatatgt caagtatgta tagtacc 457

<210> 5733
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5733

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 aatcaaacia gacaaacaaa taaaattctg ttagtcatca tataaaciaag ttaaataaaa 120
 gagaaatttc aaccaactta attttaaaag ataatggttt tgatgttacc ttttttcatg 180
 attcaagtgc ttagatcttt aaagatggaa gtcagacttt tgtttttctt acttaaactt 240
 cttgagagat gttctcatca ctttcatagt ccttgatag aaggtcgac tccttcttcg 300
 aaccatcaga tgagtcattg ccatcccaag caatatacgc cttcttgat catctttctt 360
 tataactttt cttctcattc ttctcgggcc atgactcatt tgacggacag atcgtcttta 420
 tgtgaccacg ttgatacact tata 444

<210> 5734
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5734

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 cctcagatgg tccagccctc tgcaacaaca acaaaagcct gctccttctt tccaaaatgc 180
 tgctggccca agcagaccat acattcctcc accaatccaa caacagcaac aacccagaa 240

acagccaaca gttgaggccc ctccacaacc ttccctcgaa gaacttgtga ggcaaatac 300
 tatgcagaac atgcagtttc agcaagagac cagagcctcc attcagagct taaccaatca 360
 gatgggacaa ttagctaccc aattgaatca acaacagtcc cagaattctg acaagct 417

<210> 5735
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5735

ntannaattg aattanaatg ttctgtaact attggtaatc aattaccatc catgtgtaat 60
 cgattacaca ttgtaagatt tgaattcaaa tttctaata ctgttgtaat tattttcagc 120
 tgcttgtaat tgactacaat cctcatgtaa tagattacat gccttcaaaa atattcaaaa 180
 tcatttttaa aagcgtttta ggaagtgtt tggccactgg taatcgatta catcctctgg 240
 taatcgatta ctagagagta aatctcttgt aaaaatattt tagcttaaatt tcattggcca 300
 aacctcttgt cgtttcaact tggaattccc ttctaaatc actagagatt ttcttgatga 360
 tgtatcttga atttcttga ttcttgtctt gaattaaact taagaagtgc atgatcctct 420
 tgcattaaac ttgagaagca catgatcacg tggcatcac aaaac 465

<210> 5736
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5736

agcttggttc gaggtactta cccgttgaag atcgaagaac gaatgaagaa cgtcgaagaa 60
 cggttgaaac ctttgcaaaa ttcttcacgg aanacgttac ggaaacattt cggaagcgcc 120
 tcggcttaga ttttcttcac ggaacaatt tttctaagca aattcgaaag agagagaagt 180
 gcctaagggg ctgaaccctt ttcttctca ctctctccc tatttatagc aaaaatagggg 240
 agatgggttc cgcccagctc ggccaggcga gctcagctcg cccaggtgag ccaggttgct 300
 tctccagaa gcaacagcct tctggaggaa tcttctggaa ggcccaagtg ggcttgggtg 360
 ctatntgcac ccccatTTTT actaagtaca cccctctgc ttttttgggt gattctTTTT 420

tcgaaagta

429

<210> 5737
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5737

tgttgatttc ttcaggatga tcaacacaat attgcatttg ctgcttcaat tttggcctgc 60
agatttcaca aataatacat ttactatgct tatttggtag gtttaaattt tcattttttt 120
aagggaggtg taatttttta ttaaaagtca ttgtattttt ttagaatttt attttatgtg 180
agggtcaactt aagtttttta ttttacacaa atgtaattta ttttattgcc atattatcca 240
attcattaat ttgatttagc aacacactga atttctataa gtgttaatat ttagcaacat 300
atttcttagc acatctttta tatcacacat tctattatag attaaaattt attacaaact 360
aaaaaattaa cagagaaata actcattaaa taagaagtga gactaacaaa aattgtgatt 420
nntaataaat tctaataat ctttaataat atatttaaat g 461

<210> 5738
<211> 380
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5738

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agagagcaag aatgaagag ccaatgggtg atacatggac ggagatgana aagatcatga 120
ggaagcggtg tgtgccggt agttactcaa gggacttgaa attcaagctc caaaaaactaa 180
cccaaggcaa caagggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240
caaattattga agaagatgag gaggtaacta tggctcgatt tcttaatggt ttgactaatg 300
atatccgtga tattgttgag ctgcangagt ttgttgaaat ggatgatttg cttcacaaaag 360
caatccaagt ggagcaacaa 380

<210> 5739
<211> 400
<212> DNA

<213> Glycine max

<400> 5739

tgaatcggac atccgtgtga aaagttatga ccatttgaat ttctcaagag cttccgtagt 60
tcaatttcga gcttctcgac atattatgcg cccgaatcgg acatacgtgt gaaaagttat 120
gaccatttga atatctcgag agcttccgat gatgaatttc gagcgtatcg atatattata 180
cgctgaatc ggacatccgt gtgaaaagtt atgaccattt gaatgtctca agagcttcca 240
ttgatcaatt tctagactct cgacatatta tgcgcccga tgggacattc gtgtgaaaag 300
ttatgaccat gtgaatttct cgagagcttt cgttgtgcat tatgagcggg tctatatttt 360
atagccaca atctgacatt ccagtgaaaa ggtattaaca 400

<210> 5740

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5740

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cctcgcccaa tattatgacc agccggtgag gtgcttcacc ttaggggact ttctattatc 120
accacggng gaagagtttg aagaaatcct gcgatgcct ctgggaggaa ggaaaccata 180
cctcttctcg ggattctatc cctctttagc tagaatttcc aagatagtcc aaatctcaac 240
gcaggaatta taccacagaa acgaagtcga atatggtgtg gttggagtac caaggaaatg 300
tttgaagta aagcaagagt cttggcaggt aaaggcgaat gggccccgtt catggacatc 360
ctcgactta tgatctttgg aggggtcctc tcttcacatg tggatgggt 409

<210> 5741

<211> 425

<212> DNA

<213> Glycine max

<400> 5741

tcgtcctcag atccctctta ttggacaaaa cttaccaga accgcattaa gacataacat 60
actagaaact acgtttctgt accccgatgt ttcataaaaa cagcataagc tagccctgtc 120
ctatcacgtt ctaaggatca aaccatttcc caatggtgag tgatcctaac taagcatgca 180

gttacgtgat caatgcaaag gcacactaga attaagtact gatagcacag tgaacacata 240
 aaacatcatt agatagatat aaaagtattt acatcaaggt ccccatacga agaaccaatt 300
 gaggatttag ctctccatag tctgggaagct ttctttacca cgatgagaag agaagatgaa 360
 cgattgaaga agttcaaatt gtggcgatgt ctccttcacc tctaaaacct tacatctctc 420
 aaatc 425

<210> 5742
 <211> 363
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5742

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 gcttgcaaac ttgatagatg ctggattttt cactgtaag cttacttatac caaacttta 120
 ttaataattt gaaggcaaaa aatagcggtg acttggaaca ctattgtgac ataacgctgg 180
 gagagcaaga taagcatggt gctagacgaa tgatgaaatt ggcatgtgta tgtgtggatg 240
 tgactagtag aagaccatca atggcgaga ttgtgcaaga gttgggagcac attcaaagag 300
 aaattgctcc agtgtattct caattcaacg aggagattgg tgccgtgact ctatggagtg 360
 agc 363

<210> 5743
 <211> 435
 <212> DNA
 <213> Glycine max

<400> 5743

tctgcttggt tgtgcatgga tcatcaagtg tggctctgta taatatgcat tctgcggact 60
 cccaacatag caccattact gtgcataaag gatacaaata gaggttcatt tgttgataa 120
 ttgcaaccaa tgctatatga aatcatcgcc taatacaaga gccgtatcta ccgcaatgag 180
 aacgttgctg tcatactaat tacaatatga gacaacacta tttgcttta tcaacgatta 240
 tgaaaatgaa tattttacta accagagaac ctctttttga taaaaattaa acccatgaac 300
 ctaaacgcat caataatata gcactgttat gtgatatgcc tggatcactt gttcatatt 360

tactcaccat gaattacttt ctataatgaa gactagagaa gcattccatc agcttcttat 420
gctggactaa aatat 435

<210> 5744
<211> 465
<212> DNA
<213> Glycine max

<400> 5744

cacctgccgc atgcatgctt attgaaataa agctagaaag atcttataag aaagtcacaa 60
accacttcta taaacccatg taagcacttc taaatgccct ccacatctga gattattgca 120
gtgggattct gttcttcaaa aactctcttg atcctatctc cagatgtatt agaatctcct 180
gcttgccctg ctttataatg tcaaattcac acagctatta atgaattagt atctaaaatg 240
gtattatttt ctgcacacat gggcggttgaa ttgcattgat gtcacgcatg taactttaaa 300
gggttttaat gagagaacca acgtcatctc catttatagt actctaattt tgtagcagca 360
taagtgaatc tttttgcatt ggaattgaca ctaccaatag agaacttctt catctttatg 420
aacactatac atctttcatt gtctcttatt ctttaatgga attaa 465

<210> 5745
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5745

nggggtgatgt tgcgcgtact gatgggtacc atgaggtggt tgctgggggtt tgaccacgc 60
gggtgttgaa gagacggcat ggcatctcc ttcttctctt ttgcccctg ttgcccctaat 120
tctttcgga ttcacgtttg tggaggaaac gtaatcaaac ttctctctct tcaatccaac 180
ctcgattctt tccccggcaa acaccagatc cgtaaagctg gacggcatgt aaccactag 240
cttctcatag tagaactg gcagagtgtc taccatcatg gtgatcatct ctctctcaac 300
catgggagga gctacttggt cgcgcaaata cctccatcgc tgtgcatatt ctttaaaggt 360
tacacctct atctcgaaca tattctgtag ttgagtacgg tcatgagcca tatcagaatc 420
gtactgatac tatc 434

<210> 5746
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5746

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 ggtgcagaat tctttcaagc attgtgcgac tattttccca gaggtctntt gagaagatag 120
 gaaagctaga aactcccagg tctttattaa caaaactgtg ccacgggtggc agatttctgc 180
 cttggtggat accatcaata gtgcactcaa gggcaagggg atgctttgtc ctccaggagt 240
 ccgagattgg tgcagagtat tctcccttct tccctgcggg aacggtttat gttgaaggta 300
 gctgcttggg tccacacggt tgtcgggctt tggcg 335

<210> 5747
 <211> 452
 <212> DNA
 <213> Glycine max

<400> 5747

taggcttctc ttttcaacct atatttggtg agtggggcaa ctcatgtga tctattcttt 60
 acaagtagaa agaatagcaa gccataactt attgagccat cctgtttgac atctctaatt 120
 gtatcaatga tcttatctta caatatattg ttttcttttt ctattatact ttttatacta 180
 caatataaaa tttctcttaa agaatatagg gtaaactatg tttttaacca cttaaactttt 240
 tcaaaatttg atttttagta cataaataaa agttttttta tactagaaaa ctttttttta 300
 tattctgaag cgtattttgt agaagtaaag atattttgat gttctgatga tgccaaagga 360
 acgcgctttt tgagttttat tcaagacaag aatctaagat atccaagaaa ttcaagaaat 420
 atgatcaaga taattcctag agtcttagga ag 452

<210> 5748
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5748

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gctnttattc gttgtctcac aaagtgggtac ctggagatat gtcgcggngg tcaggagacc 120
 ttgngggacgt caggtgggggt gctattgccc aaaaccaagc ttgaccaatc ccgacccaac 180
 ccgggcatag tcagttagtg agaacctgtg atgtacctaa acaggcgagc tcctggcagt 240
 caacagataa aaggaacaaa gaccacaaag catggaggct tgtgtggtgg ctggccagct 300
 gtgaatcttg tgtgatatat gggttatggc ctctggaat cgattaccaa ggggtgggtaa 360
 tcgattacaa ggcttaaaaa tgaagacaag aggctaagat ggtctttggt aatcgatta 419

<210> 5749
 <211> 471
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5749

ngaagtctgc gtagttctgt gaggacttca ttcagaagag aagtggaatc acccctttgt 60
 ggtggaggag atggggtaag ctcgtaagga ataggcagag gcaagtcttg tttgtgaatc 120
 cactgaccat caacatcatt tcggtaacca aaagagctaa ccacaccagc cccaatagaa 180
 aaatatctct taaccttcac atatggttca tcgtccaaag gaattattgaa atgatgaaga 240
 aaaagagtaa caaggtggggg ataaggtaga ggtgcattgg cccgtaatgc cttatgcatc 300
 cggtaccgaa ctaaattgggc ccagtcaatc tgacaaccag tttgaaaggc ccacatcaga 360
 atcaaatact cctcagaggc ttgagcatgg tttgaagacc ggtgaagcaa aatacgaaca 420
 atgatataat gcatgatgcg acaatcaaaa gttaatgacc cagcacgtaa t 471

<210> 5750
 <211> 575
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5750

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 ggannnnnnn atgaaccctt tgagaccctg gacaccagag acgactgcag cangcagcgt 120
 cttcatattt cgataagaaa gggttgtatt cgattatcct tcctccttct tcctataatc 180
 cgagactcct tcctcctttt atcttccctg attctctttt agacttctta ttctcttttt 240

gttcttgtca aaggacgtgg tacgataaaa aactcgaacg aaactactta acaaaaaaaaa 300
gaaccacaag ttaaatacgca ggaaattatc acaatgatcc ctgatatcta acaatgccaa 360
aatcggccca ataataaac taaaaaaca catgatacac tcatgatgtg atataataaa 420
tgcgcactca tactaagaaa tcttgacatt ttcacttaga atattagctc cataccctca 480
tctatacccg catcctcacc atcatggaca actatgtatg ggtggccaac aatggcttat 540
cacaacatca gcaaagatca gagagatctt tggcg 575

<210> 5751
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5751

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ggctaagtca agtgccacag gagaccaggg agaggaggaa gttcttttag atgtgctctt 120
gaagaaggag tttggcttaa gtgatgaaag tatcaaggct gtgatctggg taaggataga 180
cattttccac caattttatt gcatgataga aaaatggaga aaagtatgct ttactgcctt 240
cacactttag tttcaaaaac tattttgtat tttctaaaat gattagtaat cattttgtca 300
ttcaaaattt aataggtttt gcaaattgct ttgaatataa gtgttttaaa agaaaagaaa 360
aatataaaca gttaaggaca tattttctca tcctctttct gtaagtgctt tattcaagta 420
tctagaaggc aaacttttaa aaattagaaa tgtgatat 458

<210> 5752
<211> 354
<212> DNA
<213> Glycine max

<400> 5752

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gatgtccgat tcgggggaaat aatatatcga gacgcacgat attgaacaac ggaagctctc 120
gagaaatttg aatggtcatt acatttcaact cggatgttcg atccggcgac ataatttatc 180
gagacgctcg aaattgaaca accgaagctc ttgacaaatt ataatggctc taacttttca 240

cgcgaaatggt cgaattcggg acataactca tctagacgct cgaaattgaa caacggaagc 300
tctcgacaaa tttgaatggt cataatgttt cacacggatg tccgatctcg gaac 354

<210> 5753
<211> 220
<212> DNA
<213> Glycine max

<400> 5753

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agagatccac gcacactctg cctgtagcaa aggactttca caacctttga gtgttgccct 120
cgctggaaag agtgaccctt tcttccaag catctccacc cttggtcttt cataccacga 180
ttgcataaca ttcaccactg ccttagatta tctcgtgaaa 220

<210> 5754
<211> 252
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5754

agcttctcaa ctaggtgggc ttagttatta taggggtgcg tgtagctaag ctctagcttc 60
tcaaagaagt tttctcaaag aagtttctcg aggaagtttt ctcaagaaag cttctcaagg 120
aagctaccta gtctataaat agaagcatgt gtaacacttt ttgtaacttt gatgaatgag 180
agtcttgtga gacacaactc anagttcaac ttctctctc ctttctctcc attcaaatag 240
tgctcccccc cc 252

<210> 5755
<211> 372
<212> DNA
<213> Glycine max

<400> 5755

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ctcgtataaa cgctgcacag ccttcgttaa ccattggatc ttttcgaaat ttggtctgaa 120
aattcacatg acagttgtcc atgatctgac cgttgggac tttgagaaga cgtttgaggt 180
gtgctagaag cctcttaatg aaccttttgg aggaagcctc ctaatgaagc ttctagagag 240

acctacgtga agctacctca ttataaacgc ttcccagcct tctttaacgc gtggatcttc 300
 tccaaattgg gtctgaaact tcacataaca attgtacatg atctgaccgt tgggatctat 360
 gagaagatgt ct 372

<210> 5756
 <211> 443
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5756

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 taactccttg tgctttgttg gtatccaaaa taggtattat gaggcactga atccctatga 120
 taggtggtat gatgaatgtg ttgagtgggt caaccctctt ttgtaaaatc actcatgcat 180
 ccaacatctt catgattcac atacataggg actcattang taggtttggt cttattttta 240
 gtttcaatac aaacttaggt gtcacatggt aacaccttan gtttggtgtg ctttttggtg 300
 ggaataatca acatgaaaat acagaaaaaa aaatgtatgt tttatcgcat tactttcctt 360
 aatttttaaa tagggatcat ggggttacca caaacctaa gagaataaag gtcagtcctg 420
 agtgggcat tccaccaagt ata 443

<210> 5757
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5757

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 tttcactcca gaatgtttct gattcttgat ctttctcatg taatcattct tcgtaaacgt 120
 gtttcattgg agaacagacg cacatgacaa caaagaacct ttaagaacca ctaaaattca 180
 atgtttcacg atggagtggc tctaaacact acctgcacc tctcatttct ctcctccgc 240
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 cgccgttgag ctctaaactc agtgctccga gttggatcac tcaactcaacg agttgactca 360
 acaacttaaa gtgggtctca tcacatacag tctacttctt tgacaaaatt catg 414

[illegible]

agctnttact	ctcttgtgct	tgtgcctacc	gttgtgcttg	tgtgcattnt	ttctgcgtgt	60
gctttgagtc	tattctcctg	cattcttgct	ctcatcttac	atctttcacc	tcaatccaag	120
taagcttttt	atgttatttt	aattttcctt	cagaagctta	aaccttaggg	tagacaattt	180
atangctttt	agtttcattt	atggttagct	tttgtgtttt	cagtttttag	ggtttacaat	240
gtaggggtta	gttaggtcct	agagccta	at	agaggtaatg	cctataagag	300
cccccat	ttt	tgctggaaat	cacgatgaac	cgcgctagtg	cgccagctgc	360
ttcatcgcaa	ctgtcannat	tttatatttc	cagatgatcg	cactaagccc	gaccatgtcg	420
cactaagcgc	gttcagcctt	ctgatgagtt	c			451

<400> 5759

tgactatca cacatgtgat cattagcaac atatattata tagttcctaa gatctttcga 60
caacatttat aaaatgttgc caaatatgaa taaatgttac taatatgttt ttgcaacat 119

```
<223>      unsure at all n locations
<400>      5760
```

2444

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 cctttatntt tctttntaaa atttttataa agagaacaaa cagaaaacca canaacanga 360
 gaatcattaa cccatagatc tcttcaacct ctccatanat ctggtatata natataaacc 420
 actcctaaat aattctcaca cgtcagttac t 451

<210> 5761
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 5761

tgctctcccc gccctctccc aacactccat tgttgcttcc attctcccc aaagttgctg 60
 gtatgtgatt ctattaatta tttcaaattt atttattctt tataaatcgt tatattttat 120
 ttgttgcatg cttttttttt gcaggtggtc atcttggtga caaattgctg ttagtttaat 180
 tcgcttatta ttttagttat tttttattaa ttatataaca aagctgttat ttgtgcttta 240
 attttttagaa tataaattta attatgattc atagtaaata ttactgtgat aatgttatta 300
 tgcgtattta aaaaacgaag gcttattatt attatatatg aaaaatatat atatacgtgt 360
 acttatatta ttttctgaaa tatgagaaat tgacgaaaat aatatatata t 411

<210> 5762
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5762

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 cattattatc atctccctct ccatcattgg agatgctact tgagctgcta ggtcccttca 120
 cctctgggca tattccttga acaactcatg ctcttcttg cacatgtttt gcaattgcac 180
 tctatctaga gccatgtccg agttgtattg atactgctg atgaaggcag ccattaagtc 240
 ttgttaagaa tggactcggg aaggttccag aatagtatac caggtgacga ctgccccaat 300
 aagagtttcc tggaagaaat gcatcaacaa tttttcattt ttcgagtatg cccccattnt 360
 ccctactgta catttcaggt gattcttggg gcatgtagtc cccttgactt atcaanatct 420

gcaccttgaa cttcggaggg ataacgat

448

<210> 5763
<211> 438
<212> DNA
<213> Glycine max

<400> 5763

atatatcgca ccatcactct attcacttat tctagaataa tatgagtacc tattctgaga 60
tgtaagaagt cgaaattatg aatcacaaat tgattcctaa actaaactta aggaagtaca 120
tatatatcat atatgaaatt gcaacctaaa acaaatggat gcgattgcgt caataaataa 180
atatatttat attacaaatc aagatcgtat ctattattga aaacatatat gcatatatga 240
tatatcacta cttttatttc aatgcaccta caaggaattc tagcacgaga gatttggcca 300
tgagaacttg taccctgtaa ttcaaataa agcacatatt ccatcgatag aagatttttg 360
caaatctact aaaacaattg cgcattctaa ttctcagcgg attgcgtcta tgtataggac 420
ccatcttcac gaaaatca 438

<210> 5764
<211> 227
<212> DNA
<213> Glycine max

<400> 5764

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tttaatagag taacggctct atgtgaaagg ctagagggaa aagacactaa cgactctttg 120
aactaaacac atttgacccc aacatacgag tcttattctt ttaccctaaa atggcctctg 180
ttcatgagag agctagactc ctaagaacta acaatcgttc ttctatc 227

<210> 5765
<211> 551
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5765

tctcatgac tattntctaa antttttctc gtattcttat atttcacan anacctccct 60
cagcagctag ncatganatc gtgttgatgg cgtatcttaa ctactcatgc ttagtcttc 120

aagcttgagc gtcacgaag tgtatgagaa tgtatctgtc atactgttga aaggtagaga 180
ccataccgaa gaggcaagac ttagcataag aactgtcga gcaacttgat atatcatggg 240
ccttagtcgt cgagcacgtc aaacgtttgc acgattgaaa ggcctagagc ttccgtgttc 300
tgccaatgaa gtgcctaaag tgtgaggtgc atgcaaacga cattccacag cgaggataga 360
ttctatgaat ttgtgatcac ttaccaatgg acataacgag gtttaataat tactgagtcc 420
acctggcgat gatcaagacg aatagttgca tgatgggac cgaccaacat acttgaggcc 480
agatcagggg taaagcttgg aaataaatgc aacaagggat ggcctatggt ggtagacgat 540
gcccacgagc c 551

<210> 5766
<211> 366
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 5766

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tgttntgctg atggcttctt ccccgccaa gcttcaattg gaggcttgtc ttttacagac 120
ttagttggac atctgttgag tatgtaaaca gcagtgtaga ctgcttcagc ccagaatgtc 180
ttaggtagtc ccttctcctt gagcatcgat ctagccattt ccataatttt gaaattcttt 240
ctctcggaca ctccattntg ttgaggagaa tatgcgactg taagttgtcg ctcaatgcct 300
tcacctcac aaaatctttc aaactcgcga gaggtgtact ctntgccgcg atcacttctt 360
agtact 366

<210> 5767
<211> 394
<212> DNA
<213> Glycine max
<400> 5767

tgcgggagtt tgtgatagcg attatgacgt tgatgttgat gatagaaaag cactaccgga 60
tttgtattgt ttatgggcga atgagttatt acatggagat ctaagaagca aggcattgtg 120
acactttcta cttgtgaagc caagaatgta gctgcaactt cttgcacatg tcatgccatt 180

tggctaataa gaatgttgga ggaacttcag ttgttgcata aggaaagcac aaagatctat 240
 gttgataata gatctgcata agagcttgcc aagaatccgg tgttccatga acgaagtaag 300
 catatagata caaggcgatc attcattaga gagtgcata ccacgacaga acgagaactg 360
 acttatgtga aaactcacga tcaagttgcg gata 394

<210> 5768
 <211> 199
 <212> DNA
 <213> Glycine max

<400> 5768

tgtgataagc tagaacctta tctatccaca cgcctatgat aacttaatta acctccctat 60
 agataattac ggatgaatac aacgatacat agaattctat atccggcata cctactatta 120
 atatatagat atatatatca ggggtgttact actctctcac cctcttagaa aatatgcctc 180
 taaggatacc ttactcaga 199

<210> 5769
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 5769

ttttcatcta tgatccctac cctagaaatg ggctacgctt ctttctttcc tttctaaggt 60
 gacctttctc ttgtcggcat gtgtaggctt gtaacctaga ccgaagcttc cacaattttc 120
 aacaacctcc ccaagctttc tgtgccatta ccattctgag ctcataccca tcgctcaaca 180
 taacttgggc caccatcaag gaggcaccag atagacgagg ttgcagcgga ggagcctcca 240
 cataagcatt gctcacaatt tctaattgctt gaaaagatgt ttccaatgac tctgtcacag 300
 cttgcacata aggcgtagaa gatggacaac tcaactagat atcttcttcc cctgacact 359

<210> 5770
 <211> 461
 <212> DNA
 <213> Glycine max

<400> 5770

tgtaatcgat tacacacata ctgtaatga ttaccagagg atgtttttat aagacattct 60

caacagtcac atctttgtat ctggttctta agtggccatc ataggcttat atatatgtga 120
ctagagacac gaatttgaaa aaagtttttc agaacaaaaa aggtcttata ctcttaaaaa 180
gcaaaaatcgt tttatctctt tacaaattcc ttgtccaaaa cacttgtgat tcaataagga 240
attatttgag tgctcaaatt gttcaattta tctctttcaa gagagatgtc ttcttctctt 300
cttcttcatt ctgaaaaggg attaagagac cgatgggtctc ttgttgtgaa aggattctaa 360
acacaaagga aggattgtcc ttgctgtgtt agaatttgta aaaggacttt acaagataat 420
ggaactctca agcgggtgct tgtggactgg acgtacgcac a 461

<210> 5771
<211> 227
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 5771

tactttgtct tcatttaact gactatgcgc ttggcgggtca cgctcaacat agtactttcg 60
acacctacta tacgttgatt tcaccaatgc tgttatggga atgttgtgac aatcctttaa 120
aaccttattg atacattctg acaggatcgn tgatatgagg ccatatcgac gtgcgtctct 180
atcgcaagcc atcgaccatt tatcctttga gatgcgagca atccata 227

<210> 5772
<211> 446
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 5772

ggttcttgat tntntcgaag ttctttaaca accttanaac attataacttg tccttcattt 60
aattgtcttt gggcttggtca accacgatca acaaagtact ttcgacacct actatatggt 120
gatttcacca aggctgttat cggtatgttg cgacaatcct tcaatacctt atttacacat 180
ttggacaggt tgggtgtcat gtgaccatat ctacgtcctt cttcatcata agtcatagtc 240
catttttctt ttgaaatgcg atcaatccat gttgctatgg ctagactcaa ttgacgaaat 300
ttttctaaat ttgatcaaa tatatgcttg caaggagtgt agcctgcata aaattagtta 360
gcaataacaa ttttaagtat atatgaaact tacattaact tcatattata aattaaatct 420

taccaattg tttcaacatt tctttt

446

<210> 5773
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5773

atcctcagag acacctgagg catgcaagct tcaacattca aattcgagcg tctcggtata 60
ttatattatc tagtcagaca tccgagaaaa aagttattga cgtttgaatt tgctcagagc 120
ttcaacattc aatttcgagc gtgtcgctat attacgggac tatatcagac atccgagtaa 180
aaagatatcg tcgtttgaat ttgctcagag cttcaacatt caatttcgag cgtgtcgata 240
tattacggga ctcaatcaga catccgagta aaatgttatt gtcgnttgaa cttgctcaga 300
gcttcaacat tcaagttcga gcgtctcgta tattatacga ctcaatcaca catccgagta 360
aaaagttatt gtcatttgaa tttgctctga gcttc 395

<210> 5774
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5774

ntaggcaaatt tcaaacgaca ataacttttt actcgatgt ctaattgagt cccgtaatat 60
atcgagacgc tcgaaattga atgttgaacc tatgagccaa ttcaaacgac aataactttt 120
tactcggatg tctgattgag tcccataata tatcgagacg ctcgaaattg aatgttgaac 180
ctctgagcca attcaaacga caataacttt ttactcggat gtccgattca gtggtgtaat 240
atatcgggac gctcgaaatt gaatgttgaa cttctgagcc aattcaaacg acaataactt 300
tttactcgga tgtatgattg agtccccgaa tatatcgaga cgctcgaaat tgaatgttga 360
acctctgagc caattcaaac gacaataact ctttactcgg atgtccgatt cattgacgta 420
atatatcgcg acgctcgaag atgaatgtcg aacctatgag ccaattca 468

<210> 5775
<211> 439
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5775

accgaggatt cttagagtca cctgccgcat gcaagcttat ggtaatcang agttagttcc 60
tctctcttaa ggaaaaactc aacattattn tcattggatt tacataatga anaattgtcc 120
taatgataag gttgatcact tcaaggctca tctagttact aatggtttca ctcacgttta 180
tggtgatagc ttttcaactg tcaccaagat gccatttgtt tgtctcttcc ttgccatgac 240
tcccatgtgt tattgggctc tatttaaact agacgttaan aatgtctttc tacacaacga 300
acatggagag aaaatttata tggaacacct cattgttttt aggaggagtc taatttgggt 360
tataaacttc attgctctct ttatgggtta aagcagctct cctgtgcttg gttccaaggg 420
ttagtattgg tattcaact 439

<210> 5776

<211> 472

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5776

tctcagcggc ttcagatgca acataaatat gccaatgaca cttataaatt nttcaaaaaa 60
tatatcgaaa gtagatatta tgcaagcctc aagagggagg tatatgttga gaggaaagtg 120
aatctcacgg aaggtgaatt cactgtgatt caagagatct ttgaggataa aggttgact 180
aaattgatgg aaatagttat ctataatgaa ccccttgtca gagagtttta tgctaattgc 240
atctttctag atggtttcaa tgaaaggaag tcttgtgtca caggcataat tgtaaatat 300
gactaagcgg ccatcaataa tctttttggc tccatattga gaatagggaa aagccaacaa 360
acagactatg aggagtgtat aaacaaagag aaaagaatat gattggtgaa aaagtgttgt 420
gcattcccaa taggcatata gagacaaact ctaaaggaaa acctatgaga gt 472

<210> 5777

<211> 428

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5777

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acattnttat ctatatacaa ttgtttgttg cttgcttgaa tcttgatttc acgtattgta 120
ttgtcatcat caaaaagggg gagattgtag atgcaattgc ctttgggtgt ttgatgatga 180
tcatgatgat gaaattgatg caaatgggct tttcaagatt aaattcaaga caatacttca 240
agattacaag tcacaacatc aagatgggtca ctagtaaatt aggaagggaa ttcctaattg 300
aattagcaaa aggttaggcc aagtaatgta aattaagaag tgtatttcag aggttntact 360
ctctggtaat cgattaccag aggatgtaat cgattaccag tggccaaata tattntataa 420
cagctact 428

<210> 5778
<211> 300
<212> DNA
<213> Glycine max

<400> 5778
cacatactgt gatccatcac cataggattc tatcaggaaa cattctccac agtcagatcg 60
atatatctgg ctgttatgtg gccatcaaag gcttatatat atgtgactag agacacgagc 120
ttgcaataag ctatacagaa cagaataggt cttatcctgt taaaaagcga tgcgtttcta 180
ttctcttacg aattccttgc ccaaaacact tgagattcag taaggagtta tatgagcgct 240
caccattgac atggtatctc tttcaagaga gaagtcgtca tctcttcttc ttcactctga 300

<210> 5779
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5779

agctntggcc aaaccccagc agcagttggt ttcttagaga cttgtcttag caccttgtct 60
ttgagactga ggataattac actgtgtgcc ttttgcagta gtgctttctt atccccatca 120
gccatcatct tttcaagttt ggctttctca tcaagtgtt ccaccaggcc ctgctgaaca 180
agaagagctc tcattctcaa tcgccataac ccanaatcat tntgccctgt gaatttttca 240
acctcatact tggccgagtc cttttcttga atcgaactca aaaatcgctc cacgctcacc 300

gcaccaattt ggtgtgccaa gatcagaatt tagttcacia aagagtgagt ttcttgatg 360
aac 363

<210> 5780
<211> 417
<212> DNA
<213> Glycine max

<400> 5780

acacgtactg ttgtctgata ccaaagtact ctttctgata acaggctcaa cagacacatc 60
ttgttatgtg gatcttatgt ggccgtctaa ggcttatata tatgtgacta tggacacgat 120
atcctaaggt gttattcaga gcatgagatg tcttatcctg ttaaagagcg aagctgtgat 180
atcctcttac atatgccttg atcatgacac ttgtgattaa ataagggatt atttgagtgc 240
tcgaattgtc caatatatct ctttcaagag agattacttc ttctcttctt cttcattctg 300
aaccgggatt aacagacccg cgttctattg ctgagaaagg atgttaagca caaaagaatg 360
attgcccttg tgtgtatatg attagtcaga gggatctaca tgatagtgga gctctca 417

<210> 5781
<211> 358
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5781

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ataaattata tttttttatg gaattatttn tgtgaaataa atttataagt tatagattca 120
aatgtatgtc tcttttcgta tattaaaaaa ataatatcta tctatactat tataattcan 180
aattaatttg attattcaat atacaaattc aataagtatt ntatcaatta tttgaactat 240
caattaagta aactaacaca tantttgaaa ttactaatat tattattttt ctattntact 300
cctannattt aaactcantt tttttatggt cttegtatta atcctataat atagaatc 358

<210> 5782
<211> 492
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 5782

gcattacgga cctatgaaac tcagcttagc agcttattgc cataattcac aaacctagat 60
tccaaataac agcaactcan agtagttatt agatagcatg gaatatattt catttttata 120
aaaaataaat actattttaag agaaagttaa ggatacaaat ataagaggat aagatatcac 180
ccctaacaga gcaaaacaaa tgtagttatt tgatttagta cataattaca tcaactgtaag 240
tgatgtatat tcacttacgt tttagcagcc tgcttgcct taccaattgc agcaccgaaa 300
tatctctaga acaattacca aatgaacaaa tcattacaaa aataccacat ggaacttcca 360
aaaaggaata tcaattgcat gtgtaattat aaagaagtct ggaagttgct atcaaataac 420
aaaaagtagc tcacatagga nacaccgga ggttcaacca tgtacaactg tggatccatcc 480
ctgtcataac ct 492

<210> 5783

<211> 341

<212> DNA

<213> Glycine max

<400> 5783

ctcgaaatgg aaagttgaac ctatgagcca attcaaacga caataactta ttactcggat 60
gactgataga ctcccataat atatagagac tctctaaatt gaatgctgaa cctctgagcc 120
aattcaaacg acatataact atctactcgg atgttcgatt cacaggggta atatatcgtg 180
acgctctcat atgaatgttg atcttatgag ccaattcaaa cgaccataac tatatactcg 240
gatgtatgat tgatccccga aatatatagt gacgctcgaa atcgaatgat gaacctctga 300
gccaaatgaa acgacagtca cttttgactc ggatgatcga t 341

<210> 5784

<211> 437

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5784

agcttgactg acaactggag tcacatatag gtacaaagca acaatgatgt taaaacattg 60
aggaactctg tttcacctag gaatgacctt acctcatatt tagtaagaaa attatgtgca 120
aaaaattcat gcattattta aggctcttaa caatccccaa cccaccatgt ttgagatatt 180

attatttgac agttattgac tgtgcttgta caaatTTcaa agccacacaa cagattttac 240
 aacatggcta gttttggttc tgaaccacca cccatcacgt agtctagcaa ttgacatata 300
 agacaacttt ggtagaatgt gcaaaagtta cagcaataag cataataatt aanaatgta 360
 atagacaaca atttaccgaa acaccagcag gagggtcacg ataaccagtt agaagtgcac 420
 acacatagtt ctgacca 437

<210> 5785
 <211> 455
 <212> DNA
 <213> Glycine max

<400> 5785

gagtttctga tgaattcttt taccactgat tgatgtctat gggatctaag tttcagaaag 60
 acccattctc caacttcaaa acacaagtcc ctctcttct tgttagcata ccttgtcatt 120
 tgttctgag ctatgagcaa gacgtgagtt gagttgaatc aaagcctcat ctctttcact 180
 cgactccaat gccgcagcag caaccttagt ctattatac agaaatctca acaatgcaag 240
 aggttgccctc ccatatacca cctccaacgg agtcatccca atagacacat gataggaagt 300
 gttgtgccaa actcaggcca agggaccac aatgaccaag tctatggatg atcataagca 360
 gagcaccgta gataactatc cagacacctg gctaccacct gcgtttgacc atctgtgtcc 420
 ggatgatatg ctgaactcat tgtcagctta ttacc 455

<210> 5786
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5786

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 gaaaaacctc gttggactcc taggagtaca tgataagaca gaccacacac tagtaagtca 120
 ggctactctc actaggtaaa atcataggga gaccagtcag ggctactcta ttttgtgaga 180
 aactccaac catatgagat cagcataggc ttcaaggaac attcaaaccg agtgtattta 240
 gccccaggc ctacactcca aagagtccgt catgggcctc tccttctggg tcagggtcaa 300

cccagaaaaa ttttagcacg cagactctat ctatgaactg tacaaaacac acgactcctc 360
aatggttctc aaaaataatt taactcgtcg cgctcanag tgattaaact catcgagttc 420
ccacagtgga tcccatcata atattc 446

<210> 5787
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5787

ntcttgagan aacttccttg agaagcttct ttgagaaaac ttccttgaga agctagagct 60
tagctacaca caccctctc ataactaagc tcacctcctt gagaagcttc cttgagaaga 120
ttcctaaaga agctagagct tagctacaca cacctctcta atagctaagc tcaccttctt 180
gagatgagaa gctagatctt agctacacac tccctataat agctaagctc acccccatga 240
caaaatacat gaaaatacaa aaaagtcctt actacaaaaa ctactcaaaa tgcctcaaaa 300
tacaaggcta aaaccctata ctgctagaat ggccaaaata caaggctcaa acgaaggaaa 360
aacctattct aataattaca aagaataaca ggctcact tagcccatgg gc 412

<210> 5788
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5788

agcttgtacc agttgcaagc actcagactc caccacaaac gaggtaaagg agaggtcacg 60
agccatttgg atcacccata tcttanaaga tagagcatct tataactttn tatattttat 120
ttcccttcca tccctaaaat atgtaggggt aaacatgcta gtttgtttat tcatggacat 180
atgcataaaa atatagtgtg gaacaagtta gccaaacctc tatcattaat caagcacaag 240
acanttatta tttaacattg aatntatact atagtgaatt gttaaatacan atgacaaatg 300
agtccaccaa atattggttt tcacgcaata ctagttgtac actttgttat atattatctg 360
naaatattat gtaatcgagt ttttctc 387

<210> 5789

<211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5789

agaaggaaga aagaccactc ttggagtggg ttcagacgcc aaggaaagag naataaggag 60
 gctcaaagcc caagtccagc atttggatct ggattaagac atagagtcaa agatgataga 120
 aaaacaaaaa tctatgtag atccttactc ctttttagcc cctccttctc ctactttcta 180
 ttctccatcc caaaatcctc tagattactt ttttccaaa gctagtccat catgggtcttt 240
 acctatagct tctgcttata agaaaaaac agaaccacca aagacaaaac ctaccaaatt 300
 aaatatctct ttccaagagt cagttgaatc tcccacaaaa ttagaaaaca ctctaaagaa 360
 agatacccat gactnttaag attct 385

<210> 5790
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5790

tgaggcatgc aagcttctct ttggcctaac ttctcttttc gtgtccattg ttttaatgct 60
 agtttctttt tgcgctgctc atttctttgt gcttaaggat aagtacaaga acatcttatt 120
 ccccatatat ggtgccactt gcttgcccggt gaccttctat gcagtgatcc aatttccggt 180
 gtatgttgat ctacttaaag ctatttttaa gaagggtgcc caacgcgcc aaagataagg 240
 gttgccattt ttggttcttc ttactccatc ctcttgatc aatntaaaca gatcactagt 300
 ttaattggaa tgtttgtacc agactaatgt cttatctgta ttttaattatg tctggaaaac 360
 agtataccaa tttcatagtt tgggtggtgga atttgctcgc atttatatca tctcattatt 420
 aatagccatc a 431

<210> 5791
 <211> 462
 <212> DNA
 <213> Glycine max

<400> 5791

cttgtgaata ccaacatcca atgtgctgag accctgtgaa tgtctagaat ggagataaac 60
 aactcacaca aatgtttcta tctaagttag ttatcgcca atgatcacag agtacacgta 120
 tacacatcat gaagttgatc aatgttctag aaactgttta ttttcattcc ctcataattt 180
 ttgaaatgct aatcatttga agttcaagtg tatattgaga cagggttgga aaaaggtata 240
 ttctctgcag actgttgcta ataaaagtag tggaaagcat aatggaaggg ataatactat 300
 ttttaccttt ctctctccat ctcaagttgc catgttgcat cattaccagc tatgagagaa 360
 caaatatttt cgtgaaggca ctaaattcca caacggtcac atatttctag atgaccaagc 420
 gcatcaagaa acaacttttg caatctgtgg tattgaagtg ct 462

<210> 5792
 <211> 513
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5792

ganatgaatc atgcattacg gtcactgtca ctattcaaac tcgaggctgc ggctatacct 60
 tggacaaaca atgccgtgct tttgtatgca accgcacatg aggcggaactg tagtaccgtc 120
 tccgctacac taactgtatc ggagcgcgga tgcgctgctt taccctctat aagctttctg 180
 ggctttaaca tgaacctccg gatggatacc atctgatctt tcaacgccga taaccgggtca 240
 tcatctattc ctgcacaccc tctttattac tccatctttc tggatcgagc ggtatactcg 300
 gtgcctggcg ttttcttatt tatcatgaat attcctacag aagatatact aatgtgaagt 360
 atgcctcttc ccacaagcga tattgaaagt gaatcgatcg gagcacatgg atccacccaa 420
 aggttttttag caacgtgatg agatcagaca ctctctttta tacataaaca tagcttcttc 480
 tagccaagat ataccccggc gttactgaga ccg 513

<210> 5793
 <211> 329
 <212> DNA
 <213> Glycine max
 <400> 5793

agcttgctct ctaagctatt tatccaaggc actctgttgg tgtgaaagct cctccttcaa 60
 tggcttattc cctagtggat ggcgccttct ctcacctctt ctcttttacc ttctgctaca 120

tctccatggt tgaaaatcac cattgaagga cctcattgaa gctcaaagat gcagccttca 180
 tagaagcttc tcacgcaagc ttccatcact actggaggat ccccatgaat ccttctttcc 240
 ctaacaaggg aagaccccca atagaaggca tagccatgga agctaagcag cgtagcgaaa 300
 ggaaccttcc tttcttcacg tgtatgatg 329

<210> 5794
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5794

nttcgattca ttctatgcac ccattggtggt ccacattgtg tttcgtgcan ttttattctc 60
 gttgtgttta ctttttatac cccctgttga cgtgcttaag ccattttact taagtcattt 120
 ctcgcttaac ttaaaaataa aatcaatttc caccgaacgt ttgaattgta ttatccgtta 180
 acttcgatta aaatgaattc cgaccgttcg gtcgtgccgt aaccacgttg gaaatcaaaa 240
 agaggtaaaa aataatataa taataaagaa aaacatcttt tagtaaaaata aagcggaaaa 300
 tcaatcggac gttttctctt tgggatttct cattcttaat cgaattgatt aataactaaa 360
 gtgaaactaa ggctaaaatc aactcgcta gtcaagctcg tccacaaaaa taggcttttg 420
 aaatttgta tttcaatttc tctaagta aaatggatca 460

<210> 5795
 <211> 471
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5795

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 gcatcattga ggatgaaaga ctaaaaaatt aagtgtatga tattaatata agaaatatat 120
 gtgactaaca tatcacatgt aagataaaag atcagttaaa aaagataact aattaaaaac 180
 aacatgacaa gctactaagg aaagaaatga ccacacaaaa tgctaattta gatatccagt 240
 tatatataat atgaatgtgt ttggtttgt cctanaaata taaattaatt tttctttaca 300
 gaatttaatt tctttcattt acctacatct ttttttccca gtctaaatat ggaggagaag 360

ggataaaactc atcacctcta cttgtacatn agtatattgg aatgatggga ttgtgttcat 420
 caaatcatan aactgtagaa tcacgatgat gtcttagaag tatgcacatg a 471

<210> 5796
 <211> 465
 <212> DNA
 <213> Glycine max

<400> 5796

cctgagattg agagaaaatg attattaaac acaaaatgga agtactaagt atttattacc 60
 tataacttaat agaaaatact tataacacta caaaataacc ataaattgga agagtttgat 120
 acaatttaca caagttttat acacaaaagt tagtcgtatt catcgactaa caggtggaag 180
 aatgcgttga ataatagcac tatagttacc ttccacaaca attatgtcac tatggatgta 240
 caagttcttc ttggttaaca tatecttcaa aaatttgga tagaaggga tttgctgaag 300
 tgcttctcca aaaggcaagg taatttccag tttcttgaag ataccaagaa atctagccaa 360
 atgtcactct ttatcttttc atgagggtag caattgataa ggtacctcct tgcattcaat 420
 aggaggagcc tctttcttct tttctatgtt agcctcactc ttacc 465

<210> 5797
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5797

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 cttttctaga gagctctaga attttctaga acctctcaa ttaaggaggg atcccaacac 120
 atctccccct cccgacttaa ttggggggta gtagcaaacc ggcaccttgg ataccttatg 180
 tcaatgtgct ttggtcatca tgcaaggatt gcttctcttc ttgcatgact cttctccact 240
 ccaccaattc ataggtgtta ttctcatgca cggattccat ctcttcttgc atgactattc 300
 tccactccac caattcatag gtgttattct catgncagga ttgcatatct tcttgcattg 360
 ctcttctcca ccaccaattc ataagtgtta ttctcatgca aagatatcat ctcttcttcc 420
 atggctattc tncactccac caattcat 448

<210> 5798
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 5798

cgaaactaat tttgatatgc caaataaggc agagtttgaa catgggtctgt taagggtatga 60
 tgccataact tgcagacttg aagctatggt tctgcggtat ttacatcatt atattttgat 120
 cttgttccaa tcaagcgaat tatcaagctc gcataaggaa ataagggttag gtagcagtag 180
 tggcgatatt aattgctcat tgcttggttg ctatatagaa tataacatgc ctactttttg 240
 tactatgtat agaagttaga agtgcacctt cctttctctc ttctgcctca aaaagccaac 300
 atgatatgga ggagaacata ttctaattta tgacatgtaa cattaataac aacctatagt 360
 gctgacagat tagtctgctt 380

<210> 5799
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5799

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 agtacgtgag ctacgttgga ggtgggcaac aggggatggt gggtttatgc gcgatttgtg 120
 gatgtagaaa acttgttggt caccatcgcc cgaccgccac ctagtaccac atgtgatggg 180
 taccataa tcctacaagc ttgagatggn gaagtgtaga aggggtgaaac ttctgcttt 240
 tattcattga ccacagagtg gtacctggag atatgtcgcg ggggtcagga gaccttgggg 300
 acgtcaggtg gngtgcatt gcccanaacc aagcttgacc aatcccgacc caaccggggc 360
 atagtcagtc agtgagaacc tgtgatgtac ctaaacaggc gaagctctgg cagtcaacag 420
 ata 423

<210> 5800
 <211> 460
 <212> DNA
 <213> Glycine max

<400> 5800

gcttaatggc tcaatgagca aggggaaatg atagtcaatc aacatgtaaa catacccttt 60
tctataggag actactatga tgacgtttta tatgatataa tccttatgga tgcagggaac 120
atthttgttg gtagaccatg gcaatttaac aagaaagaca tccacaatgg tctcaccaat 180
gaaataaccc tcacccatgt aagcaaaaag ctcaaacttg ttcccttgac accttcacaa 240
gtggttgggg atcaagtaca aataaaactc aaatgggatg aggaaaataa taaaataaag 300
actagaagaa caacctttta tgggttaagga ggagtgtgag gaggtagggtg tctcctccaa 360
taggttagct aagaagaaaa gtcattctgc aataaagaca aacattaaag acactttcct 420
tcttagacaa cctccacata ttctcctttg taaaggacac 460

<210> 5801
<211> 334
<212> DNA
<213> Glycine max

<400> 5801

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gtaatcaaca caagatgata taactaaagg tcacataatc aatcataagt caaaacccaa 120
tataatccaa tcattcataa gtcaaaaacca aatataatcc aagcataaaa gactaagtac 180
caaataccga aagataacga aagttcagaa aatgataacc taaaaagcat agccaaatac 240
acggcttaca ataaaataga atgataatct ataactaaga aggtgggtgga ggtaaagca 300
ccgacgaaga taagtcacat cctcttcaag ctgg 334

<210> 5802
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5802

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gactgcagca cgggtccgc ttcactaact gtattggagg cggctgccgt ggctttatcc 120
tctatagttt tctggagttt taacatgacc tccgagatgg aagccatttg atcttttaag 180
gccgatagat cggccttcac ctattcctgc acgcccctct cattatacat ttttctggat 240

cgagtgttat aggggtgcct tgggtgttttc ttagttatga tgaaattcct aaagaaataa 300
 acaaaggtga gtatgccacc aaaacatgaa tatgtaaatg aatgatcgga gcacttggat 360
 ccacccatag gttnttatgt aacgtgatga gtccagaact tctcattgta taaaaagaac 420
 agagctttca tctatccaag aatatac 447

<210> 5803
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5803

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 tcttctattn tcagattgng aatgcctcta acagcacctt tgtcaatgat tntcttcatg 120
 cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcac tcttttggag 180
 gatagacatg tggaggagta actgggttct tgagggtgcc ataggtaaca gttgtccttt 240
 gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300
 gtgaagttta cattgaatcc ttcatcacac agctgactga tgttgatcaa agttgcagtc 360
 agtcccttca ccagcagta 379

<210> 5804
 <211> 440
 <212> DNA
 <213> Glycine max

<400> 5804

tcgaagggaa gagagagacc aatcacgagc acatagcatg gtcttaaaag aggagttagc 60
 tgcttgctca aggtccaaaa gaagcttgtc tcagcgttta tgcgagacag agaccaacat 120
 gttagccatc gtcagcaagt accatgaaga attaaatcta gccacgggcc acgagcacia 180
 agtggcggac gagtatggac gagtgtacgc gaaaaaggag gctataggaa tggatgatga 240
 ctcggttacat caagaggcaa caatgtggat ggaccgattt tctcttactt tgaacaggag 300
 tcaagaactt tctctattgc tagccaaggc catagccaaa gcgatagcgg gcacctactc 360
 caccoccgag gagatccact gacttatcag ttattgtccg catatgatag acttaatggc 420
 ccatataatt agaaaccact 440

<210> 5805
 <211> 89
 <212> DNA
 <213> Glycine max

<400> 5805

atcgattgaa aacaactcca tataatgaac gctataccaa ggttctgacg aggatctagg 60
 actaccactg ttcattctac gggccaaaa 89

<210> 5806
 <211> 455
 <212> DNA
 <213> Glycine max

<400> 5806

tctatggaca ctgaatcttt gaggtccttc aatgatgatt ttcagttata gagttatagc 60
 agaagataaa agagaagagg tgagaggagg cgatcatctac tagggaataa gcaatggaag 120
 aagaagtttc accacaaaa gagtgtcttg gataagaagt ttagaaagga agcttcaatg 180
 aagaaagata atgagagaga aaaaaagtgg tgtgggaatg aaggaaagat agggagataa 240
 gttaaacttt gaagtgtgtc tcacaagact ctcatctac aaagttatga caagtgttac 300
 acatgtttct atttatagcc tagcacggga aactttcttg agaagctaga ggaagaaagc 360
 tttcttggga agctagagtg gggctactca cacccttca atgttaagtt caccctatgc 420
 taaaatacat gaaaatacaa tgggaagctt tcttg 455

<210> 5807
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5807

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 tgtcaacttn ttagaatgac aaatcaaggg atacaaatca cttttgcccg tggttattga 120
 atatttatct gattttcagt gtccatgccc cctacatctc attttacaga tagtatataa 180
 cctttttttt ttctttttat cacattctgc atatgtacca tagaagatga tttcctgtgt 240

atgatcaacg accctgcaac aatttaaaaa ccccttactg tacttgtttt taaataggag 300
catttaatga ttgctacttt tctactaaca cacttattha aatcagtttt tacaacatga 360
ttaattttaa ataaacttac tgcttcatat cat 393

<210> 5808
<211> 138
<212> DNA
<213> Glycine max

<400> 5808
tgatgccgaa caaacattta ctaatcgaca tcatccagtt gttatataac gagtgaatag 60
aataaacaat ggccggtgat gatcgatata tggctatgc tgatatctga tcaactacat 120
tgccgcaatt tcttatac 138

<210> 5809
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5809

agctngaaca atatagatta atctaacgac tataaatcgt ggtgaatggc atacagtcag 60
tacacaaaaa aatatttagc cctaaagacc aggcttgtaa tgtatataag cttctaaaaa 120
tatacatgag ttgaacagca aaagtctcct agggctcttca acatgggtatt tgcacaaat 180
gagaaacaag aaatctccaa atctcaaaaa tcaatcctaa aaatagttaa acattaacaa 240
aagagggaga atctttcttg acctttccct ctgccgatta gcactatcaa tttctttact 300
tttagggat gtttggttta aaggaatgaa aggcgtgtta aagtgacaag agatgaaaga 360
tttgaattaa agtagtgtat agatgtgcaa cccacaccaa tttctaanat tttcatctca 420
gatacaccca agatgaaaga accaaacact a 451

<210> 5810
<211> 462
<212> DNA
<213> Glycine max

<400> 5810
tctatggaca ctgaatctct gaggtccttc aatgatgatt ttcagctata gagttatagc 60

ataagataaa agagaagagg tgagaggagg cgatcatctac tagggaataa gcaatggaag 120
 aagaagtttc accaccaaaa gagtgtcttg gataataagt ttagaacgga agcttcaatg 180
 aagaaagata atgagagaga aaaaaagtgg tgtgggaatg aaggaaagat atggagataa 240
 gttaaacttt gaagtgtgtc tcacaagact ctcatctatc aaagttatga caagtgtctac 300
 acatgtcttt atttatagcc tatcacgga aactttcttg agaagctaga ggaagatagc 360
 tttctttcga agctagagtg gggctactca cacccttca atagttaagt ttcccccatg 420
 ctagtataca tgaacataca atgtgaagct tccttgagaa gc 462

<210> 5811
 <211> 309
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5811

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 tnttttatga cagaattgag aatcggaatt caggtgtatt tcgaataatt ctattataaa 120
 taaagcatta acgtataaca aataagaaat ttataacatt aatttaaaag tactaatgat 180
 tttattaaac tgtaagcctt agtaataaat aattaanaaa attatttata gaattaagaa 240
 ataatttttt attaaaaata tcatangatt acattaaaag ttataataaa aaaagcgtat 300
 tcataaaac 309

<210> 5812
 <211> 272
 <212> DNA
 <213> Glycine max
 <400> 5812

atgacctgca agtcgcttac ttatatctct tacttcgtta agaagacgta gcttgaaaca 60
 actacatgat cagctaagat aattcaatct acacgctgac tttatcaaat ggtcaatgtc 120
 aacgcacgct gcgcaccata tagctaagac aagctaagta tctccttctt aaaacaacat 180
 tttcacctac atatccgact attcaccaga tgtcaagcga gtatcctgct ctagatatgt 240
 aatgatgcac taatttacca taggaacagc tt 272

<210> 5813
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5813

gcaagcttct aaggaagttt tctcaagaaa gcttctcaag gaagctacct agtctataaa 60
 tagaagcatg tgtaacactt gttgtaactt tgatgaatga aagctntatg agatacactt 120
 caaagntcca cttctttccc tctttttatc cttcaatttc gggctccccc cttctctctt 180
 tcttttcttc cattaaagca tcctcttcaa gcttcttata caaggcaatt cttgggtggtg 240
 aagctccttc tttcttggtt tattccctag gggatgggtg cttccctata ctcttctcct 300
 ttgccttccg ctgcctctcc atgatgaaaa atcac 335

<210> 5814
 <211> 555
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5814

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 attcatgctt acggaactta cataactcaag ctcaacgggtg acgccgatct gcattgaata 120
 atccacatct tgcgttgtca ttgagaagag agagagatac aagtgcgacg caatagtatt 180
 aagctaccga atgaaattgg agggcaaaaa gcgcgaaatc ttttttataa actctgttct 240
 gtaatcattt ttgatataat gtggagggag taatatgttt tacagcagac ataaggacgt 300
 acggcgtatt aatgaattaa tgaccatgtg tagtctagaa gaagaaaggc ttgtaaggag 360
 attggcgaga gggattgttg taaagagggt tggaaaaaac aaagaaccta ggtaaaccct 420
 aagagaaatg gactggtgca atacctgctt aaactgatat atagaaggct gcaaactgtg 480
 tttctttata cgataaatgg cacaaatgaa gaatatattg cgcacatgcc atataagatt 540
 tgataagaaa ggaag 555

<210> 5815
 <211> 370
 <212> DNA

<213> Glycine max

<400> 5815

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ccaagcccct acttttgagg ggcaactccc gccttatgac gactatcccg ggcaagatga 120
tgaggaagga gatacccatc tcggccccct gctccacctc aaagatccat cccacatga 180
actaccccaa ccaaacatag tccgccatat cccggcctca cccacacccg taaaagaatc 240
tgttcccttc gcggaagata agggaaagat agaggcgctt gaaaagaggt aagagcagtt 300
gagggccttg caattaccca ttctcggatt tagccgattt atgtctcgtg cccaatatcg 360
tcatttcctc 370

<210> 5816

<211> 486

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5816

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gggtgacgagc caagatatat gtttaacgaa tgagaaacgc ccaggagcgg actatgcctt 120
tgcgaaattc ttcatcgcaa gtgttacaga tacgagtggg aagcgctga gtttatactg 180
ttcttcacgg taaccgatgt acaacgcnat tcaatgagag ggaagngcct tacgggatga 240
acacattgct acttcggtta ctacacctatt tatagccaaa taggggaggt ggttgacgac 300
cacctggccc acacaagcca gagtgtttct tgcatagac acagtcttgt tgaagaatat 360
attggaagga ccatggagtc tggggctatt tgatcccat tttttaaga cccccactg 420
tctattcggg atccttttac gaggaacggg acaactagtt caactaaacc ggtctttaga 480
acggct 486

<210> 5817

<211> 466

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5817

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 attaaaatat tgaccatcca gacctagaag atgaactttc gcagaattta tgggggtcggg 120
 aaatcaagag gggtaaagag aatcaagggt aatttcttaa accttaatac tagacaaatc 180
 agacactagt actaaggcaa aacgaaattc aatgacccat catgtcattt agtgcctaata 240
 tttctacact gtttagattaa aggtcaaaat accattattc tgctgggtcac ggattcttat 300
 catatgtaat gtgaccacaa atagtcacta aaatagttca ccttggttgt gttacaaagc 360
 tatgtaatta ctatatgtct gaccatatga ccaacctgct tgttgagccc aaacaatata 420
 ttgcttagta tgagttaatt atatacaatt gccatttgaa tctgga 466

<210> 5818
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 5818
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 atctgctggc atgaaaaaaa atagagtacg catttccacta ggaaaacttc agcatgcact 120
 gcagcattct atagacaaat ctctgtacaaa cgtaagttat taagcttata tatctcacat 180
 tgagcattcc ttgactatat gaatgtccaa agagaaaaac atatgccaaa ggggtgtatat 240
 cattttactc acttcatggt tgctgtgtc aatgccattg caagatgcta gaaagaagta 300
 cgagttaggg tcccttgcta atgaactctg tattctggat acaggctcag caacagttct 360
 gaattccagt gttccaacac cagttgaagc tattaagga gtaaag 406

<210> 5819
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5819

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 aacgtcaaat tctccgcta tatattcaac ctttccatca ctggcacgtg gagtgaatct 120
 tctccatgg tgcaatacta aagttatatt gtcattcatt ctacacaatc agaaaccgca 180
 nacatggtca gatattatga aataaaaaaa cctacctcan aaagcgtgaa gacattgaca 240

[illegible]

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<223>      unsure at all n locations
<400>      5820
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<210>	5821
<211>	431
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      5821
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2470

tgccaatgat c

431

<210> 5822
<211> 453
<212> DNA
<213> Glycine max

<400> 5822

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gtgaatctca tgatctcaca taaagtctaa tctaattcatt aaataacatg atctcaacca 120
cgtcttatat catcattaag aaatcaacca acacaacca agatattcat taatcaacat 180
aattatctca tcatcaatat aatattctca acaacaacat gatatatag ccatagtaca 240
aggatagacc aaaccatgaa taataaatgt gcgtcactat accattgtga caactttata 300
cctcatgggt aaggttatca aaacatccca tacgtcttgg gttactatct ccttcattat 360
ctattatgtg gctatgacct tcatagetta tagacatgat aaataaggat atactaactc 420
agttaagttg gttcttgtct catgtgaaag cta 453

<210> 5823
<211> 268
<212> DNA
<213> Glycine max

<400> 5823

agcttcttat ccaaggctca tcttgggtgt gaagctcctt ctcccatggc ttattcccta 60
gtggatggcg cctgccttct cctcttctcc ttgctcttcc gctgcatctc catgggtgaaa 120
aatcaccatt gaaggacctc attgaagctc acagatccag cctccataga agctccacaa 180
gcaagcttcc atcactccgt gacaaaatta aaccctccaa catccctaaa tcatcttaaa 240
catagccaga cctgcatgaa aaatcccg 268

<210> 5824
<211> 382
<212> DNA
<213> Glycine max

<400> 5824

ctaacaagca ctctgggtcat gaaatttccc tctcttcggc tcaccagtgt gaaagatgtg 60

cgtgagtaga taatgcaa at gcaagatatt tcaactcaac ttaagaaatt gtgagggttaa 120
 tatgcttgag tcttctctga taaacttcat tctgaacaca tttctgctag aatatgggtc 180
 gttaagatt tctacaaca tacataatga caaatgggtct attaataat taatgaccat 240
 gtgtattcta gaataaaaaa tgcttgtaat ggagacgggt gagagtgtat tgttgtaa ac 300
 tgcttggtgg aaaaacaaag atactaagtc tcaagcta at cagaaaggga ctggtagaat 360
 accaccttta gctgatattg ag 382

<210> 5825
 <211> 260
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5825

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 gagcatattt tccccatgat catgcaccta gtatgaaaag agttcttctt ttgagtttca 120
 tctctatcct ttcatgcact ccccatatac ctcttaacca tcanaagatt accttccagg 180
 ggttggtgat cacattcact ttcactctca ctagaagaac tagaagagct agaagaagat 240
 gcactagtga tatccccatt 260

<210> 5826
 <211> 466
 <212> DNA
 <213> Glycine max
 <400> 5826

cggttcgagg tacttaccg ttgaagatcg aagaatgatg aagaacgaat gaagaacgtc 60
 gaagaacggt cgaaaccttt gcgaaattct tcacggaaag cgttacggaa acgtttcgga 120
 agcgctcgg cttatatatt cttcacggaa acaatttttc caagcaaatt cgaaagagag 180
 agaagtgcct aaggggctga accattttct tcttcacttc ctcccctatt tatagcaaaa 240
 taggggaggt ggttgacgcc cagctcgccc aggcgagcca ggttgcttcc tccataagca 300
 acagccttct ggaggaatat tctggagggc ccaagtgggc ctgggtgcta tttgcacccc 360
 catttttact aagtacaccc cccactgctt tatttggcga ttcctttttt cgtaaagtta 420

cggaactta cgaatgctgt aacgatactt ggtttctttc cgtaat

466

<210> 5827
<211> 337
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5827

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cgtgatgtgc gtgtctacga gtgggacttc gaaatttcag gtttgggtgg acttctttct 120
ctcttgattt tcgtgggtat ggggttttgg gaaatatgat gggtagtgtt gctaagtttc 180
tgcttcatga tagttatttg tgaaggaatt tgtggaaagc atgttgaaat tgccatgttt 240
ggatgagtta aacataccca ttctgtnta ggggttttat gatgatgctc gtgatgttca 300
tgtgtgaaa tttcttatgg aaaactgtta gagatga 337

<210> 5828
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5828

tgcgannagc ccactccatc attaggattt gttcctgcc tctcaaaca acaaatcaaa 60
cataacaaga caattatagt tgttgtttga atacctcacc cactcaagtg tatcacacaa 120
ttatggcttt tctctaata aacactcttg ctttttacca ctctaattcc cttgagttc 180
ttaggcaatt caagagatta tggccacaac aaagaacaat tcaccaatat gtgtaaggta 240
aggctggaga gacaaggaaa aggttaacca agaaaaaggc taacaatgtt ttaggcaca 300
attgaaggaa ataaaattca gaatttagga attcaagtaa caatccttca tacaaccaat 360
atattacctt aaagagatta tttttaagtt cttcaagcat gaaccattca gccagattn 420
tcttttttct tttctaattc tgcttatatg a 451

<210> 5829
<211> 346
<212> DNA
<213> Glycine max

<400> 5829

agcttctatg ttcaatatcg agcgtttcaa ttaattatgt gcctgaatcg gacatccgag 60
 tgaaaagtta cgaccatctg aatttcttga gaacttctat ttttcaagct caagcgctt 120
 tatatatcat gggcctcaat cgtatatcca tctcaaaagt tatggtcgctc tgaattggac 180
 aagagctttc gtgttgaatt tcgagcgtct cgatatattg tggacctgaa tcggacatcc 240
 gagtaatatt ttatgaccat atgaatttcc ctacaactta cagtattata taaggagcgt 300
 ctctgtatat catgggactc aatgcgacat tcatgttaaa agttat 346

<210> 5830

<211> 418

<212> DNA

<213> Glycine max

<400> 5830

tcattaagag gcttctcca gaagcttccct cgtggcttct atgagaagct ttctcatgag 60
 gcttctgtga gaagctagat ccttatctat ccacaccctt ctttgaactt aattaacctc 120
 cttaaaaata attacagatg aaaataacgt acccaataat caaacatcaa acataattac 180
 taataatata tagatatata tatcaggggtg atacagctct ctcacccttt tagaaatgtt 240
 gtactccaaa ttgaccatac tctaacaatg aatggcgagc tgctcgcatc taactatcta 300
 agttccacgt ggcatattct cctgatgcac ctgcccacat caccttgacc aacggaatca 360
 ttttgctctt aacgtgttat gttagcctat cctcgaacct cagaggcaat gcttcata 418

<210> 5831

<211> 350

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5831

agctntgatg gtgtcgagaa gaaatcacat gtttgtcatc atcaaaaagg cggagaatgt 60
 gaatgtatgt atacatgatt gtgatgatgt caaagaagaa tctaacaagg ctgcttcaaa 120
 tgataagcat ttgcttcaag aataattcaa gattgcttca acaaacaag cttgtttca 180
 agattcacta aagaccaagc cttggcctta aacaaagtgc tttcaagaca tgcaaggctc 240
 tggtaatcga ttaccaggaa gtgtaatcga ttatcagaag acagggttga gaaataactg 300

ttgaaaaatg tcttgaatgt gaattctcaa catgtaagtc gataccatat 350

<210> 5832
 <211> 508
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5832

ctgacttcat ttgccctccn gtgacttacc tgacactatc tagaactcag gtctggagaa 60
 atacacggtc tggagatatg aactgttatg tagtttagag caacgagtga gaacgctctg 120
 aggcatgtt acaatcatct accatctcgt ttgctgaacg aggaggaaac acctcggtt 180
 ataatttgc taccgtagct aatctttctg tggatgctga atgaatcatg gaggcctcat 240
 gcgccgtccc tggctttgat taccttggcc tacgactcat agccatatgc aggtgggtgt 300
 tgacggccac ttcgtgcata cgaggcacgg ggcactcttc ttctctgaag actgatggga 360
 gacgatatcg acgatcatag tgatcaggga gctatgtgta gctcgctttc atattgcacc 420
 ccagagtga ttatgaggga cttattgatc cccacaaacc agtaaactcc taatttctga 480
 cccgatactc agaacgagca gaccatcg 508

<210> 5833
 <211> 450
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5833

gcttatcgta atcgattaga taattatntt ttagacaatg actggggttt tatgagtctc 60
 tactttaatc aattaccagg tgatgtaatc gattacttct ctcttaaaag agtttctgaa 120
 gtgatcaata acactttatc gattatatga agaatctaatt tgattacatt gttcttgaaa 180
 gttttccaga ttgtgcgaag aatactttaa tcgattgaaa tgataatata atcgattact 240
 tctttgaaat aattgattac attgtatatt taatcgatta catgcgatta taactatttt 300
 ctctataaat agccaccttg tgttctcact tcaatgtgga aaaattaagt gtgaaaatat 360
 atgagttgaa gtaacagatt aagagaaaag aataaagtgc ttagatacaa tgtgactcac 420
 aacttctaatt ctttgattat gaagatcata 450

<210> 5834
 <211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5834

tgtgcaatct anagccagtc agtttccaag atgaaattnt ggaaaactgg atcccttggt 60
 acttgaaggg tccatctcat ggacaagaac ttcagcaatt ttgggggaaag gaacataagg 120
 aagttggctc gtggccgagg ccaagacggt tccttctaaa tcacgacaaa ctacgcccac 180
 gccaatcca ataccgttct tgcaagcggc atcaaagttt aattttatta attgctgagg 240
 gtggacacca tctattctga tgagtcactg ttgtggcggc tctaaagcac tgtgtctcgg 300
 caaataaccc aataggaacg atcaataact aagcttatgg cggttttctt ttgctgaaag 360
 atccaattat tccttcttcg ccagattgac cataacatcc caaacatctg ctgtgcaaag 420
 ccctctatcc ttggtttcta agcatcatatc cagccatgta ttaaacga 468

<210> 5835
 <211> 356
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5835

cattgtgcat gtccctcaac ctatccacat tgtgtacntg aacctgacct tgaacctcac 60
 ccatgttgtg tatctcacac cctaagatgc atgttcttga tattacgtta caaggcatca 120
 aaagtgtttg cacgcgcagc cggagaatgt gttcgtcacc tgcggatcac ggnggtggag 180
 ctctgtgaga ggcttcaaac cattggagaa gaactctctg tttatgcaaa caatttgggc 240
 gtcaacttgg agttctcggg ggtggagaag aatctggaaa atctgaaacc agaggacata 300
 caatggaggg aagaatacgt tcttgtggtg aatagcattc tgtagctgca ttgcat 356

<210> 5836
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 5836

tgtatgcttt gtctcttgca cagtatggta aggtatgcga cccagcattt ctgacgcgat 60
gataatgggt gaaaggggat atagagatat atgggtataaa tagcgatacg aactgctacc 120
actgcaaaaa atgtattgtc cctaattgct cactctgtat aactcactac attactctct 180
gctctatata cataatttca atcgcttagt ggagctatag atggcgcttt ggccaatttg 240
atcattaggt tgtctgacct gtaaattcat tggtaatcat agacttacta tgagatatga 300
taccctaga aagtaccatg tacgtatact aaccactgtc atgataactg gcattctgac 360
tctcgaaagc tcaactga 377

<210> 5837
<211> 379
<212> DNA
<213> Glycine max

<400> 5837
ctgcagctta cttatgaagg gtattccctc tcgagctctt tttttttttg agatgattca 60
ttttctctt ccatgcaatt tgtgggtgatt cttgtttaac ttgtgaccgt ttataatcct 120
aaatttatta ctaccacaaa ttatttatatg taagtttaga ttactaaaa tattatttgg 180
gaccaaatt ttacatatatt taattctatt aggacaaata aaaattctat aggaacaaaa 240
ttaatttttt ttctatgtta taaagaataa aacatatatt aacctattat ttataatacc 300
tatattgggt atccatgaat agttttccta ttttttatgg cttagagggtc aacatgagag 360
aggggtgtagt attgtattg 379

<210> 5838
<211> 496
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5838

ttacgtgaca ctatgaaact aagctgaata tgctgaagat tacagttgct ttaggagtat 60
aaaccacatg ttatcaacac caaaatatca gtcataaata aatctttgat aggatgagct 120
tcaaactgta tgctttaaga agaagaaata tatataaaaa ttaaaaacat accactgaga 180
atactttttt gactgcttaa taaatcatgt ggaccacatc caccttcact ggtagttatc 240

tcctaggtat agccctggaa aagagaggca gatctttatg cattgcatat cattacatag 300
 taaatacaag tcaactaatct tctacaaaaa ttttaattta ttatgatatc atactatcat 360
 agtgatgaaa agattttatgt tttgactgat taacaacatt ttaaaattag tgtgcaatat 420
 gaggaacata aaggataccg agaaacaaag aaatacctaa tatntgacac aataatacag 480
 accgaagtag aatata 496

<210> 5839
 <211> 259
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5839

cccttcaagt aacgaagaat tctttttgca gcttttatat gagaagaggt aggagcctcc 60
 gtanagcgac acacaactcc caccgcatat agaatatcgg gccttgtatt ggtagatagac 120
 cttanactcc ccacaagact cttgaagacc gtggagtcta cttctctccc ttcacatcanac 180
 tttgataact tcaagccacc ttccatatgt gtgttcacgg gattgcaatc aagcatatta 240
 aatttcttca acacttctt 259

<210> 5840
 <211> 487
 <212> DNA
 <213> Glycine max

<400> 5840

ggacacttaa atactaagct taaggttatg acttcatggt gctcacccta tctctaagac 60
 acacaccaca aattctcctc atgtcagcct ttgcctttga gttccacca tatttttagtg 120
 caaaccaaga acctgagaag attataactca ttctttacgg ctgggttagg ttgagtggat 180
 tggaagcaag aaaaaaatac tccctccggt actatttaca aaagggtggt gtcgaattta 240
 agctaattaa gtattaacaa gtactaatat caattaatga gacattagga agtaacagta 300
 acaattataa gaaatagtat caattatcaa tcatcaatca tcaatcatca attgatatat 360
 tatcttatgt atagatcata aaataagatt ttatcacata acaatgacta tgttcggaaa 420
 aattaattag aaactacaaa tctagctaata aactgacggg tgtatatata tatatatata 480
 tatatat 487

<210> 5841
 <211> 351
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5841

gagagacctg aggcattgcaa gcttccaaat tagtgtacca cactaccgct tctccggttt 60
 agctatcttg aaagaagtgt attaatagct tttcatcctt agagtgggag cccatcttac 120
 ggcagtacat cttgagatgg tttttgggac aaggctgccc tttatacttg tcaaagtccg 180
 aactctgaa cttcgngnga ataacaacat cgggtactaa gcaaagatcc gtcattgtctg 240
 cgaacggata gtcccaaat ccttccacgg cctcaatct ttcctcaagg agatcgaaact 300
 gtctccttc ttcaggtgct gaggggcggtc cttccttgga caaaactatt g 351

<210> 5842
 <211> 267
 <212> DNA
 <213> Glycine max

<400> 5842

agcttagcta cactcacctg ttcattgaact atgctcacct ccttgagaag cttccttgag 60
 aagctagagc ttagctgcac acacccatct aaaaactgag ctacacctct taggaagcta 120
 gagctcgact acacacagcc atctaacaac taagctcacc tcgttgactt aggacatgca 180
 agtgcatatg gccacaagac gtgcctacta caaagactag ctgaaaggcc cgatggaaca 240
 acgctgaaac cgtatactac tagaatg 267

<210> 5843
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5843

agctgttcgc acaacttacg gttaaactctg tgacctagcc atggcagaag tctccacaga 60
 ggccattgcc tccctcgccc agtattatga tcagccgttg agatgcttca cttttgggga 120
 cttccagcta tcacccatgg tggaagaatt taaagagatc ctacgatgtc ctctaggggg 180

aaggagacca tacctattct aagggttcta tccctcatta gctaanattt ctaagatagt 240
 ccaaattctca ggcgaggaat tagaccacag aaagcaactc gaaaatgcgg tgggttgaat 300
 accgagaaaa tgtgtggagg caaaagcaag aatcttggtta ngtagaggcg aatgggcccc 360
 gttcatagac attctcgac tggtgatctt tggaggagtc ctctttcaaa tatggatg 418

<210> 5844
 <211> 459
 <212> DNA
 <213> Glycine max

<400> 5844

tgcttctaca acctaagcac acttagtgga gaatcctgga cttgatcttg gattagtggg 60
 ctaaaccata gctaaatttc actaatcata attagtgaat ttttggctcc aaatttggct 120
 ccacaaattc aaattcaagt gaaatttgaa tagaaattca aatttccctc caattttgtg 180
 tgacacttaa gctataaatg gaggccttgt gtgtgcagtt tttcaacttg atcatttgag 240
 aattacactt caaagttcat acctcatttg aggcttgaaa tttcgtgctc cttctctcct 300
 tctccctcca ctcatcttct cctaccttca agctcttctc catggcttcc tatgggtggtg 360
 agcttgttct tgactcatct tctcctttta agtgacattt ccaatcatct ttcttacttc 420
 tccattctgc tgccattgat cttcaagaag taaaggact 459

<210> 5845
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5845

agctntcacc agatcatata agataaatgc tttcangcaa tctgcagata tatcctccca 60
 aacgtcaaaa ttctccgcta tataatcaac ctttccatca ctggcacgtg gagtgaatct 120
 tcttccatgg tgcaatacta aagttatatg gtcattcatt ctacacaatc agaaaccgca 180
 nacatgggtca gatattaaga aaataaaaaa cctacctcan aaagcgtgaa gacattgaca 240
 ttgtcaaaaa ccgcgaagac acaatcaana accaaaaaca ttgtcatcta taanaacaga 300
 gcatcataaa cgaaattaat aaacgatcat aaacctccct a 341

<210> 5846
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5846

tcagaccaaa gcaacataaa atctaggtat ccaaaacccc tcaatttaat ggattttcaa 60
 ggtttgagaa gtgaaattga gaatgaggta aatttgggcc aaactctcac ctacacaaag 120
 tctataacat caatctaaac ttgctcaaac tggatttgca cctaaaattc caccgaatca 180
 aaatttgact cctcaacacc caattttacc ctagaaatgg ctctttgttc actttgggtca 240
 tttgtttttc tctcttgac aaccaagct tctcataag tcctaaatga catttcaaac 300
 taggattaac tcaatttaac ctccaaatac cactaaatcc agatttggcc ttctgactct 360
 caaaaactca ctctttntcc actcataaca ccatattctc actttctaac cctagggttaa 420
 ctctaccctt catccctagc a 441

<210> 5847
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5847

agctgtagtt gtatccctac ttttaagggt attctngcat gctgattggt ttttattatc 60
 ttgtgcctag ctntttagtt atcatgcata ttgactattg agctcctggt aggtcttatt 120
 gcgctacgat tggttgggtc ttgttggatc ctttggttgt ttgggttgga tccaaaacat 180
 ataacaaata ttttttttgg tacagctgat aataatacta aaacttcatt ntatcttagt 240
 ttctgcatgc agtaaaataa aaaaaatctt agtttcgtca catttcatta catcctaata 300
 ctaaagtana ttcatataat aattacttgt ttctaacatt attttctacg aatccctaaa 360
 aaaccatgta tgtattttat attctcttcc gttcctacaa gctatttttg c 411

<210> 5848
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 5848

gttccaacat ccaagcataa caacattcaa acagcataag ctatcacagc caagcaaaac 60
 agagcaaagg cagaaaactc tgctcaacac atcaacccaa atcacagctt ttctcactta 120
 aagaccacag taacaattcc ttgatccaa ttcgttaacc gttggatcga ctccaaaatt 180
 ttactggaag tctatagtgc ataagcctac attttgaccg ttgggatcta ctagaaaaca 240
 tccagtactc attctgtact actctttcca cagcgaacca cacacaagca ttttctgcac 300
 caagctaaaa tcttgctgca cctattttga cagcaaaatt ctgcataagt gcagatttcg 360
 aaaatcacac tttccctcat ccaatcttgc tcaaaacaga tactacaagt cccaaatcat 420
 gtatcatata tg 432

<210> 5849

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5849

agcttctttt ggaccttgaa caagcaatca tctctctnt cagaaccatg ctatgtgctc 60
 gcgactgggc ctttcttcc ctgcgaact tgagttcatt attgctaccc catagaagct 120
 ccgcgaaatt gttccggcca tactcttct tgcgagccct cttggtctct ttttcaaggg 180
 ctcttgcggt aattgcattc tcttccgta acccggcgca ctcttccga acgtgtgtag 240
 cagccaactt gaacttctcc ttggcgagtt ntgcctttcc taactcgctn ttgagagctt 300
 ggacttctc gtctcttcc ggtgcttcaa aattctcttc gctgacgact ttttaactngg 360
 cgagccaatc taaacctcgt atg 383

<210> 5850

<211> 416

<212> DNA

<213> Glycine max

<400> 5850

tccattggtt gagttttgct tcccttttca cgctctgttt cactccctac aagtaagtgc 60
 actctgcctt gggtatttgg ctctccattg ttgtgttttg gtgctttagt tgctcatatt 120
 atgcgaaatt cgcgaagcaa ttcacatag aaaccatact tgttttcgct aaattaaggg 180

gttgtaaggg atggccttag gcctatgttg cattctggag taatggggca tgccacattg 240
 cccccattct cttgctattc atgcctaaac atgtgcccac caagtgctcg gtatagggac 300
 aacatgtaga ggttaaaatg agtgcctgaa tgcgaatcta ggccataggaa cccaagcttt 360
 tgatttcaat acaagaaagc gtaaaaatga gggcattatg ataggaattt cccttt 416

<210> 5851
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5851

agcttgggtct aaaattcctc gaaaattagc tttntatgat tatatcggaataaatccagc 60
 aaaagggggg ttatttagag cacgttcaat ggacaatgga gatggaatag ccgtcggttg 120
 gttaggacat cctgtcttta gagataaaga ggggcatgaa cttntgtac gtctatgcc 180
 tactttnttt gaaacatttc cggttggttt ggtagatggg gatggaattg ttagggccga 240
 tgttcctttt cgaagggcag aatctaaata tagtgtggaa caagtaggtg taattggtga 300
 gttctatggt ggcgagctta atggagtcag ttatagcgat cccgctactg tgaaaaatat 360
 gctagacgtg ctcaattggg tgaaattttt gaataaaatc gtgctac 407

<210> 5852
 <211> 462
 <212> DNA
 <213> Glycine max

<400> 5852

tacttatctt atagtttagg tgctttatct gttattggtt ctattgcttg atgctttgtc 60
 tggtttaata ataccgctta tcctagttag ttttacgggc cactgggccc agaagcttct 120
 caagctcaag catttacttt tctagttaga gaccaacgtc ttgggggctaa ttaggatct 180
 gctcaaggac ctacagggtt aggtaaatat ctaatgcgtt ccccgacagg agaagttatt 240
 tttgggggag aaactatgcg cttttgggat ttgcgtgctc cttgggttaga acctctaagg 300
 ggtccgaatg gtttagactt gagtagactg aaaaaagata tacaatcttg gcaagaacgc 360
 cgttctgcgg aatatatgac tcatgtcctt ttatgttctt taaattccgt ggggtggcgta 420

gctacagaga ttaatgcagg caattatggt tctactagaa ga

462

<210> 5853
<211> 399
<212> DNA
<213> Glycine max

<400> 5853

agcttggttca tatagtttca acctgaggtt ctttaaagac ttagtaaaaa tatcagccaa 60
gtgctacgag atctatcttt atgtgttttag tatgttcatg gaagactaaa ttagatgcaa 120
tgtgaagaga gcaacttgat tttcacaaat aagcttagtg tcttgagtgt ctccaaactt 180
taattgttgg agaagttgcc taagccatgt aatttcgcat gcaacttctg tcatggtata 240
gtattcaact tcagcgtggt atctcgcaac tatatttttg cttttgcttc tccatgagat 300
caaattccct ccaagcagaa cacaatagcc tgaggtagaa ctctgtcca atcagcacta 360
gagtaacaaa caattttgac attgtcttcg tcttcatat 399

<210> 5854
<211> 409
<212> DNA
<213> Glycine max

<400> 5854

tagagagaga aatgcgtaga gagagaaaca ctgtgtgggg gagagatagg tctagaggaa 60
aggcatttca aagtgcgga gagaatccta tggaggcaac ccgacggctt tatgccagag 120
acataggaaa agcccatcaa cactatgttg tgacgaactg gagagataat atggatatca 180
catactgtta ttttaccat tttggagatg atgttacaga aaggagcta tggatcatt 240
tcaagaagtg gggagacgcc cgggagatct tgataccaca tccgtataaa ctacatggga 300
agaaggtagt gacttgcct attcaacggg atacgatata ctagatacac cgtcaggcag 360
ctggataaca cattaaatcg gcgggctgaa gctatatgtt aatatccct 409

<210> 5855
<211> 431
<212> DNA
<213> Glycine max

<400> 5855

agcttataac tgacatatgc caatgcatgc tctttccaca ctacgtggtg gaacaataat 60
 gtgtcatgat gccaaactcaa cactacatgc attgggaaga agaatgatcg atttgcaagt 120
 aattaatagt agtatatata ttagggaatt gtagtcttct gaaaaatttc ttaacttttt 180
 ttatcatctt atttttaaaa tattagactt aatttcactt ttttctttta aatattatga 240
 tagtataact ttaatccttt tatttttcat tatgggtcaat aacttggata atttttttcc 300
 ggaaccaatg ggattctaag agagtaggag ttataaagtt tacctgatga ttgtgaaagg 360
 agattaagca taaagagaga aggagagata ataatggatt tgaatctctc attaccttct 420
 aaaaataata t 431

<210> 5856
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5856

gtctagctnt tcattggtgt attttgatct ccttttggtg ctctaaaatg tgggaatgtg 60
 ctcaaataatg tggggcaatt ctggtttggt ttcttgcttg tttgggttg attggagggt 120
 tgtatgggat ggccctatgc ctataatgca ttttgaagca atgggacatg ccacattgtc 180
 cccgttctct tgctattgat acctaaacgc gcaccacca agtggttcggt gaaatgcctc 240
 aatggaatta gcgcgtgacc tttgtaagga aacaacccat ggggcatttt ggttcgcaca 300
 tattttctat ttttcgggac atgcattcat tcccgataaa ggttacagta attgccccac 360
 atatatacta agcttaggaa ccagagtgtt atgctataga acacactacg aggtgcatat 420
 tgtgtaaagt taccct 436

<210> 5857
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5857

catgcaagct taccaccttc aggaatccag ctatgattcc aaaattgaat ttgagctcta 60
 tcgcctatcg gtccctcata agtttgttgc accttcaccc aactgttaca aatccctttc 120

cacaaattag aaccgcgect. attagtatca ataatgggta acatgtcatc accacactta 180
tacttcgctc tcatgatttg aacccttagg tcctctctac tcaacataat gcccaaccaa 240
tcttcatcat atacgaagtg ttaaccatcc tagatggatc taggaaagta cacagactgc 300
attgcatagg agggtaacgc ttgaagaaca gacgcaacaa tttatataca tatttataaa 360
gaaaaacaaa aaatctctct ctctacaca tttatcacat cataataatg aagtnaaata 420
cactattgta tgtgtatctc tt 442

<210> 5858
<211> 548
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5858

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cgcngtganc tcgtgttcan tcctgtctct attgacacac aagctntaca catggggcact 120
aggctcacia tcaactgtgtt ctatacacat agatggacgt gtcgccacag atacttgaga 180
gagggcgagt gaggtatagt cgtatagctt ttctacaatg catatagaac tctatatgac 240
tcatgtctca tgctatcata ccgtgacgtt tgagagacct ctaacatgta ggtcttgaca 300
aactgtcgac ataacatcgg ctacacatac ctctatttca cccatcattc aaggatgata 360
cacaaacggg ctatggtaga gattaacaca ttggagattc tgggagactc tctcccatcc 420
gattatccac acgggaaaat gcttggccct gttattcatc ggtactatat tcaatacact 480
gtaggtcctg gtaaccctta ttgtcggcgt acctatgaaa acccttagtt cgcagtacaa 540
caccgacg 548

<210> 5859
<211> 201
<212> DNA
<213> Glycine max

<400> 5859

agcttgtggg agtactgaga ctgcggaag gtttacgttg tgttaccagt ctacacatgc 60
cgacaagagg agggtcaccc tagataggaa ggagagaagc ctggcccatc taccatggcg 120
aggactacaa gtggaatggg tcctcattcg tcaaatcatt gaaagctttg tcagtgcatt 180

acggatgtgc gaggatcaag t

201

<210> 5860
<211> 579
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5860

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catgaatgag tcctgcggac cctacactac tcaagcctcc gtcttctata tcgacagtat 120
atatcatgtc gtgcgcctta catcaccact atggcatagg caacacgcat acctctggag 180
agcacacacg tggatgaataa ccactcttgc cacggagctc ttgatcatgg atctaatac 240
catatgctgc tactcaacct gctccttgct aatgtctacg cacctcacga ccggaaagac 300
tacagacagc acttagctcg agttcactat aacagtaacg cttatgctct ctcaaagagc 360
cgactagtac acctgtctac atgggcgaga cagcatagt atatacagata ttatatatgt 420
cgctaaacat atcagctcac agacagaaaag ctgaacacct ggatgcgtaa ctgacctgac 480
aattgcacag cctgggctcc ggagcctatg accacacagt ctcatacctc aagtcgagc 540
tcacatgcta ccacatgaca agagatcgac ctcatatgg 579

<210> 5861
<211> 248
<212> DNA
<213> Glycine max

<400> 5861

tatgacgacg ctctgtgatgt tcatgtgctg aaattgccta tggaaaactg gttgagatga 60
agggtcaaac taaccttagg ctagaaaagg agaatgtggt gttagaagtg gaaaaagagt 120
gaattttgag ggctggaagg ccaaattctg gattggtagt attagacgct agagtgagtt 180
aatcttaact tgaaatggca ctaaagactt atgacgaaag ttatgctgtg ctacagagat 240
aaaaaatg 248

<210> 5862
<211> 567
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5862

actctattga taattactat ctataattca anttttgtac tactactact ctaccataacc 60
actacagcgc ttgaatcggt tctgtaccgt cctatacatg ctcatgctgg aggcataatac 120
atggaagatg ctatgatgcc attcggatat tcttctggag ctctataaag cggaaagagc 180
gtacgctata tgagaggcac atgtggtacg cttttagct tgtgagggct ggagagacgg 240
actgtataga tggccctatg ccttatatcg cctttagaag cacagggaca tgcctcatct 300
ctcccgttca ttcgctattg acatcaaagc tcgcactcat caattggtat gtgaagcgcc 360
tcattggagt agaagcgtga cctttgctgg gaaacactct atgggacgat gccgtctgac 420
acatcttcta tttatcgtga cgtgcaccc ctcccaaaaa gttacaatgt atgaccatat 480
atatctcagg aaccaacctc tattatgtct cgaaccacta catcggcgag tcggtaagtg 540
accttttatg ccgctacaca ttgagcc 567

<210> 5863

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5863

agctngtcac caatgtgagc atcaacaagg acaccagact cactcctgca gctgttggca 60
agggccctcc ctacttcact atcatcatct ggctggntca ccacaagagg acttccacct 120
ttganaacct caagcttgtt tatggcaa atgaaccatcag cttcaaccac ctccttgaag 180
tcttgaggc ttggtgcata cactggaata gtgaaactgt ctcttttctc actgctaatt 240
aatccctggg attaagaata tgaattagta catgtacctt agacatatca atacataaaa 300
ttaacaatat actggatgct ttaattggtt gaaaaatgct taaaggagac aggaattgac 360
cattctaaac ccaaattgaa aaacagaaaa ctaatgacct cataac 406

<210> 5864

<211> 244

<212> DNA

<213> Glycine max

<400> 5864

tgtctttttt ggctcagcat cttgatacat attgcatgcg atacttgtct tgacacgctg 60
tatataatga tgatatggat ctgcttggga atgagccgaa gagtttgagt cattttagaa 120
ttgttggtga cagtcctttc accatgtatg aaattcaggt aaagaacgac ttatactgat 180
caacatactg aattgggacc acaagatcct tcaatatgct ttctgactct ttactaaca 240
ctta 244

<210> 5865

<211> 348

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5865

agctctatan acgcgggtct gggagacaaa tgtatagtgt tcgcgatatg cgaagatgat 60
gttctgagta ctttggattt ggtacgacca tgccctcctg atttccagct gggaaattgg 120
cgagtggagg aacgccccgg catttacgca atgagcataa tgtaaaccctt tacggtttta 180
aaagctctat agttgggcct aggttttaga gattttcctt tgataaggct ttgtgtcttt 240
tgtttttgaa cttataatac aaggatcttt cttcatctgt tcctgggctc taccattct 300
cattcatttg catgtttact tctttttctg aaatgacaga tccgatga 348

<210> 5866

<211> 378

<212> DNA

<213> Glycine max

<400> 5866

tctatactat atacaagaat gaagctctga taccacttgt tggacaagtg gcctcagata 60
tcttaagaag gggggggggg gatgaataac cacacttccc acatagctct tcataaagtt 120
actaatcacc ataagcttct attcaacact cctcttgcta atgtttctga cagcacttat 180
aggaaagctc acacattgca catacctcat ctcccacata acattctatg tatgcctcta 240
aaattccagg actaagacac ctgcctaaaa cggagattaa cgagacgaat actagatatt 300
atattgcttg cattccatta catcattaca ttcttatata tatgcacatg aatgctgaat 360
tgctactcta attcctct 378

<210> 5867
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5867

agcttgtna gtttagtcaa cttttagaat ttgatttata tttgtattta attatatttt 60
 ggacctattt ttggacttgt aatgggttgc gaccttccat tgctattttt aagtctttta 120
 attattatat tattagacta cgacccttct gtttaactct atgttattct ttctgctgcg 180
 taaaaatgtg aggtgaagtc ccacattgtg tcaaagtata aagggtgagc accatataag 240
 tgaggagaaa acccatatac ctgaggccta tgggtttggg atagagcgtg gtgtcacgtc 300
 accttatgtg gtggctcgtg gtccacaggt gtatcccttg aatctttcca ataatttgta 360
 tcatagtcaa tggg 374

<210> 5868
 <211> 305
 <212> DNA
 <213> Glycine max

<400> 5868

tcgaactgac aatatatata atctgagcct ctttttacca ctaggatcgt gaattggata 60
 tttctgtgtt acacacacta ggtgaaatga gattctcgct ccggaattac tcgccttgga 120
 ttctttcctt atctgattgt ccttctcttg aatctttcta aactcdactc cctcactac 180
 cagaaagact acaaacagca cgtagcaaga gttatctagt ctctagcact tatgctctct 240
 ccatgatccg aatagtcccc ttatctacat gaacgtttga agagagtgat ataagatatt 300
 attta 305

<210> 5869
 <211> 292
 <212> DNA
 <213> Glycine max

<400> 5869

ggcatattct ctgtaatgtc catctagtta gcgacctgcg ctctagatag atacatgtgt 60

aacactagat agaaatgaga gacttgtgag actcgcttcg ggggtgcagaa tatgtgcata 120
 agatccttct attaccacgc cacttactat ttgtctaact cgcagactat gactccagtg 180
 aagcctcctc tcttagctcc ctacaccaag aactatatct gtggtgaaac tatttactcc 240
 atgactgatt atatattggg tggagatata tctcaacctg ttacctgtac ct 292

<210> 5870
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5870

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 ccaactagtc ccattctccc agacaacata acagacattg acatcaaaat ctgattccga 120
 aaatgctcaa gcctattgtc ttactacttc cattgaaatg atatttatgg actttgttag 180
 agtgaattat ngatgattg tattctgatg aattttggat taaaaataaa taagttagca 240
 tgcgtattat agaaaattta tggacctcta ttatggcttc aaatggttca ttcctgtgan 300
 agtccatga atgatattat ccaggacttt ctatctgtag tctcttgttg cggattgcag 360
 aaagttatta tcttggtaga tcttaatgtg caaagctagt ttc 403

<210> 5871
 <211> 480
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5871

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 gtattttgtg gtcacgatac ttgattcata ttgcatgcga taagtttctc gtcacgctgt 120
 atattatgat gatctggatt tgcaagggtg agagccaaag tgtttgaatc attttgaatt 180
 gatggtgaga gtcctttcac catgtttgaa atccagggtc tgaacgagtt atcctgttta 240
 acatatgatt tgggaccaga agattcttca atatgctttt tgactctttt actcccaatt 300
 atcaactgtt gttgaaagt acgtctcttc ttacctgttg aaaaaagcc agtactgtta 360
 cagctctcaa cacttgaatg gctgtcattc tctcccttg ataacattac attcgcatgc 420

ccatcgata acgattattc cttgcctttg tttattgcca tatgaattat gctatgacat 480

<210> 5872
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5872

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 aacccgaatg ggtttaggca aagacaacga cggcataact agcctgataa atgccaaagg 120
 aaatcgtggg aagcatgggt tacgctataa gccactcag gcggatataa agaggagcgt 180
 tgccggaagg aagagcggaa gtcaaggctc gcggttgaga caagaagggtg aaggaaaccc 240
 accctgccac ataagtaaga gctntataag cgcgagcctg ggggacgaag gtcaagtcgt 300
 cgctatatac gaagatgacg ttccgaatac gctgganttg gtacgaccat gcnctctga 360
 tttccaactg ggaaaatggc gagtggagga acgccccgac atttacgcga cgagcataat 420

<210> 5873
 <211> 471
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5873

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 ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120
 aggcaataga tctaaatatac tgggaagcca ttgaaatagg gccttatata cccaccacag 180
 tagaaagagt ttcaatagat ggtagtcat caagtgaag cataaccata gaaaaaccta 240
 gagatagatg gtctgaagag gatagaaaac gagtacaata caacctaaaa gccaaaaaca 300
 taataacatc tgccctagga atggatgaat atttcagagt ttcaaattgc aagagtgccta 360
 aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatggt aaaagatcta 420
 ngataaatgc actaactcat gagtatngaa tatttagaat gaatacaaat g 471

<210> 5874
 <211> 418
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5874

agctacagac caaagcaact canaatctat gtatctaaaa cccctcaatt tagtggaatt 60
tcaagggttg agaagtgaaa atgagaatgg tgtaaatttg gagcaaactc tcacctcaca 120
caagtctata accttaatct aaacttgctc aaactgggtn tacgcctaan attccaccaa 180
atcaaaatth gactcctcaa caccctaaatt ttaccctaga aatgggtctt gccttcaacta 240
tggtcttttg tttttctcct ttgcacatcc caagctntcc cacagtccta aatgacattt 300
caaactagga ttaactcact ttaacctcca atttctactg aatccagatt tagcctttca 360
aacgctcaaa gcacacact tttccactca taacactaca ttctcacttt ctaacct 418

<210> 5875

<211> 358

<212> DNA

<213> Glycine max

<400> 5875

ttggactcgg atgttctgcc gagtcgatta atcatgctgg acgctagaga ttgtatacag 60
aacctctcac ctaatctaaa tgacaataac ctttctctca caagtgtgat tgtgtcccgt 120
aatatatcta gatgctcaag attgtaaaca caagctctga gccaatcaaa agcgacaata 180
gcttttgact cggatatccg atggagtcac ttaataattc tagacgctca atattgaata 240
ccgaagctct gagcaaatgc atatgacaat gacttttgac tcatatgtcc gattgagtc 300
tttaataatt tgagaccctc tatagtgaat gcacgagctc tcaccaaatt taaatgac 358

<210> 5876

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 5876

agcttangga caggtactag caggtgctag tattctctaa tttcgttgct taaaattcct 60
gcttttattt attagtttgg ttccttgaat cttattttaa ttgacctagt gtcataccct 120
aatttcatcc gtgaaccttc atttgctaac attttgattc ttgctagccg aatngagcta 180

[illegible]

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<223>      unsure at all n locations
<400>      5877
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<210>	5878
<211>	388
<212>	DNA
<213>	Glycine max
<400>	5878

2494

agctccacaa gccagcttta tcatectc

388

<210> 5879
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5879

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ctattttcag attgggaatg cctctaacag cacctttgtc aatgattttc ttcatgcctc 120
ttaagtgcag atgtccaaat ctttgatgcc atattctgac ttcattcttct ttggaggata 180
gacatgtgga ggagtagctg gtttcttgag gtgtccatag gtagcagttg tcctttgatc 240
tgctgccctt cattagaact tcactcttct catttgtcac caagcattct gactttgtga 300
ggtttacatt gaatccttca tcacacagct gactgatgct gatcaagttt gcagtcagtc 360
ccttcaccac cagtactttg tccagactat gaagttcatc atgaactagc tttcccattc 420
caatgatctn tcctttatag ccattctcaa atgtcacat 459

<210> 5880
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5880

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ctactttaat caattaccag gtgatgtaat cgattacttc tctcttaaaa gtgtgtctga 120
agtgatcaat aacactttat cgattatata aagaatctaa ttgattacat tgttcttgaa 180
agatgggtcag attttgggaa gaatacttta atcgattgaa atgataatat aatcgattac 240
ttctttgaaa taattgatta cattgtatat ttaatcgatt acatgctgatt ataactatct 300
tctctataaa tagccacctt gtgttctcac ttcaatgtgg aaaaattaag tgtgaagata 360
tatgagttga agtaacagat aaagagatna gaacaaaagt gcttagatac aatgtgactc 420
acaacttcta atctttgaat atg 443

<210> 5881
 <211> 479
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5881

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 ttgttacttg aaggggccat ctcagggaca agaacttcag caattttggg gaaaggaaca 120
 taaggaagtt ggctcgtggc cgatgccaa acgtttcctt ctaaatacag acaaactacg 180
 cccatgccaa ttccaatacc gttcttgcaa gcggcatcaa agtttaattn tattaattgc 240
 tgatggtgga caccatctat tctgatgagt cactgttggt gcggctctaa agcactgtgt 300
 ttcggaat aacccaaaag gaacgatcaa taactaagct tatggggggt ttcttttgct 360
 gaaagataca attattcctt cttcgccaga ttgaccataa catcccanac atctgcttgc 420
 gcaaagcnc ctattcttgc gttctaagca tcataccagc caagtattaa acgatgtgc 479

<210> 5882
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 5882

agcttgtgta cttgaataat agaataaaga atctgaacaa acttattctt aatttttttt 60
 tctcaccctc catttattct ttttacaatt ggaccatag tcgaaccata gggctcttgc 120
 gaataattga taggaccgct gttgttcaag ggagggcttg ttgctaggac aatattattg 180
 ctatctatat caacattaac aatcaatgat ttcttgga aatatcatgc agactgaaaa 240
 ctaaacagtg ttaataaata aaagaggact ttaattgatc ctcttttaatt cttcattatt 300
 tgtggcacta tgcattggac ctaaataaat atttatatta ctatggccta caagattgta 360
 tacatattcc attg 374

<210> 5883
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5883

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 gtgttattaa tattaaattt aaaaaatggc ataaaaaata aaataaaaaa ctaattgctc 120
 tttaaaatgc tttttttaag ttcttaacta aattatgatg tacattcttg caaaaaaaaaa 180
 atcctttatt gctacctttt taaaatagtg tgttgaggga taccatgat ttctaacttg 240
 agaccaaaaa atttcatgca atgataattg tattaacagt atatttttaa ttatattttg 300
 ataatttata taattcttaa agaaaaatta tgaatatata agcttgcac attttttaaat 360
 atgaagtata ttaaattaca acccttaggt ttttttaggt cttacaactg ttagtcttta 420
 caaagttgta ttttcaggta gtattgagtt caatctttg 459

<210> 5884
 <211> 315
 <212> DNA
 <213> Glycine max

<400> 5884
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 aatattgcta catattggcc tatatctgta aaaccttgct atttccagct atataacaat 120
 aatcagtcct tagcggcact cacctatata accggtaaaa gcttctacag cctaaattac 180
 gccagttcaa ttttaattgca gctcaactat ttagcagcca tatatatttg ccgctcaccg 240
 aaaggatttc ttgggtgttg gatcatcgag tctgctaata tgggtacac ctagtctttt 300
 aacatgcata aaata 315

<210> 5885
 <211> 221
 <212> DNA
 <213> Glycine max

<400> 5885
 atcaatccta ttatactttg caaagacaac caagtaagat gagtcattct gcctcgtaa 60
 agtttaatta taagggatgg ccataaaact taaaaaactg gagaacaatc accacatgca 120
 ttgcacctca tctgcgtatc tttttcgctc acgagctgca taagaataac ccatgtacta 180
 ttgcaatcct tcataagaac tgaagaatcc atgttagcat c 221

<210> 5886
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 5886

agcttgtaag gcttggatct tcttcatcaa tagagtcatt tgcttcttga agatcaatgg 60
 cagtagaatg gagaaggagg aacggtgatt ggagatgcca ctttgtagt catcttatac 120
 gactaacttt tgtatagaaa acttttacia aatgtatata ttttcccaa tttatgggta 180
 tttttgtagg attctaaata aattttgctt tgtttttata tgtgctcagt agaagccttg 240
 tgtatggaat taatgtcaat ttctcttcaa tttcaggcaa aaaggagtta ttttgaagaa 300
 gtgctaaagt taatgtctcg ctaagcgagc tcaatgcgct tagcgagtgt catctcttaa 360
 ccaagtcata aat 373

<210> 5887
 <211> 456
 <212> DNA
 <213> Glycine max

<400> 5887

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 aaacttgga cctcattctt cccattatg catgagatct tcaaggagga agaggccaca 120
 attttcatct tcttccaagc tccatcatat tgttttgact ttttctctca aagccttggt 180
 aagaagccct taaacctttc ttttcttctt aattttcttc tcatttttat gaaaaattct 240
 tacttgaggt tccaaattta tttttcatcc tttggaagct tgagacttca acatctaagc 300
 ttttttctt taaccatttt gtggaagctt cactcaaggt aaggggagtc tttccacttc 360
 ttaaaccta accttggtgc ctttggaagc taggcttcat tacatgttgt gatgtttaa 420
 atttcatatc tgcggctgga caacccaatg tgattc 456

<210> 5888
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 5888

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 atatatcgag acgctccaaa ttgaaaacgg aagctcgtaa gaaattcaaa cgacaataac 120
 tttttactcc gatgtccgat tgaatcgggt aatatatcga gacgctcaaa attgagacta 180
 gaagctctga gcaaattgaa atgacaataa ctttatacac ggatgttcgg ttgagtcccg 240
 taatatatcg agacgtcca aattganaac ggaaactctt agaaaattca aacgacaata 300
 actttttact cggatgcccg acatagtgtc ataatttatac aagagatgct ccatattgaa 360
 tacggaagct cgtatcanat tcaaaccgac aataactctt gactcggatg tatgattg 418

<210> 5889
 <211> 378
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 5889

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 aagttatcgt cgtttgatt tgctacgagc ttncgttntc aatttgaagc gtctctatat 120
 attacgggac tcaatcgggc atccttgtat aaagatatcg tcgtttgatt ttgctacgag 180
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 <213> Glycine max
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<212> DNA
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<223> unsure at all n locations
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